Prom Name	Rev	Part No.	Location	Page	Comments	
SwitchProm	R	F93427	i14	14	New Rev for 16K Control Store CP	256 x 4
KernPC16Prom	В	F93427	h14	15	Standard	256 x 4
CSIntProm	D	F93453	e20	22	Standard	1K x 4
StackVirtProm	1	F93427	h24	15	Standard	256 x 4
ScheduleProm	D	F93453	h18	14	Standard	1K x 4
ErrorProm	E	F93453	, g14	15	Standard	1K x 4
IBProm-PC.0	G	F93453	i17	05	Standard	1K x 4
IBProm-PC.4	G	F93453	h17	05	Standard	1K x 4
DesMpProm.0	В	F93427	a16	33	Added to control DES logic	256 x 4
DesMpProm.4	В	F93427	b16	33	Added to control DES logic	256 x 4
DesSpProm	Α	F93427	b15	33	Added to control DES logic	256 x 4

Prom files are stored on [Indigo]<br/>
CDandelion
CPE>Proms>\*

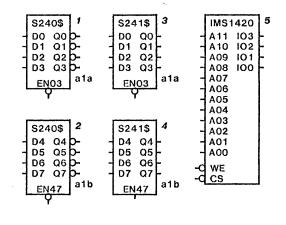
Bringover /a [Indigo]<Dandelion>CPE>DfFiles>Proms.df

to fetch all files, sources, tools, etc.

#### Labels:

	KernPC16 h14 Rev-B						IB-PC.4 h17 Rev-G			DesSp b15 Rev-A
Switch	KernPC16	CSInt	StackVirt	Schedule	Error	IB-PC.0	IB-PC.4	DesMp.0	DesMp.4	DesSp b15 Rev-A
	KernPC16 h14 Rev-B						IB-PC.4 h17 Rev-G			DesSp b15 Rev-A
	KernPC16 h14 Rev-B						IB-PC.4 h17 Rev-G			DesSp b15 Rev-A

# **Font 4 Macros**



AmZ8068

ASTB AFLG D-

SP7

SP6

SP5

SP4 SP3

SP<sub>2</sub>

SP1

SPO

SFLG

MFLGD-

PARD-

AP7

AP6

AP5

AP4

AP3

AP2

AP1

APO

MP7

MP6

MP5

MP4

MP3 MP2

MP1

-dMDS

-dsbs

-dmas

CLK

VCCA MR/W'

-{c/κ′

GNDA

-dMCS -dSCS

MPO

#### **Important Notes:**

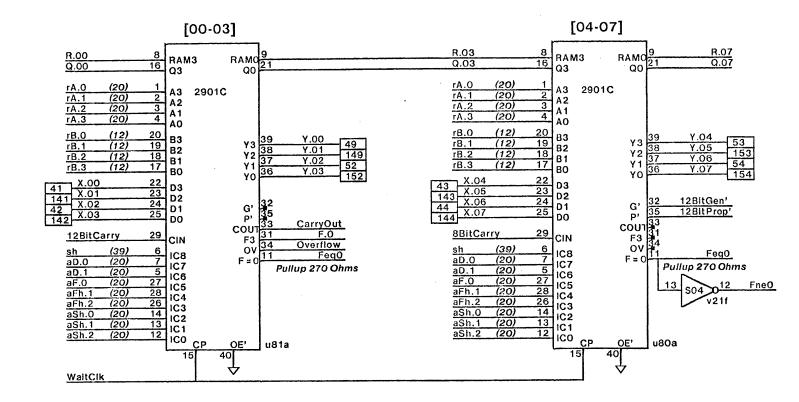
Only macros 0-9 are valid component names and will not be expanded by Analyze.

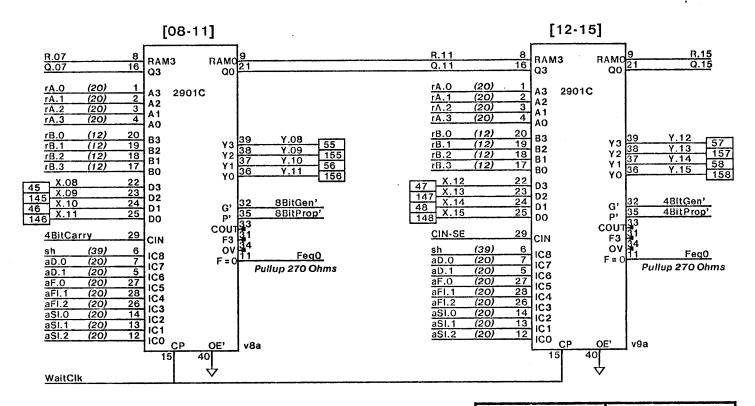
Some of these drawings contain instances of the macros above.

Those that do have a warning on them, see below left.

There is a corresponding CPEDict.analyze that should be prepended to the dictionary chain.

	DWG	DWG NO. 156P12560			SHEET		
XEROX	TITLE		SIZE		1001	2000	REV.
	SCHEMATIC, CPE-FP	Reference	A4	SHEET	02	OF	Α .
The second leading in the second	A	Reference			· ·		

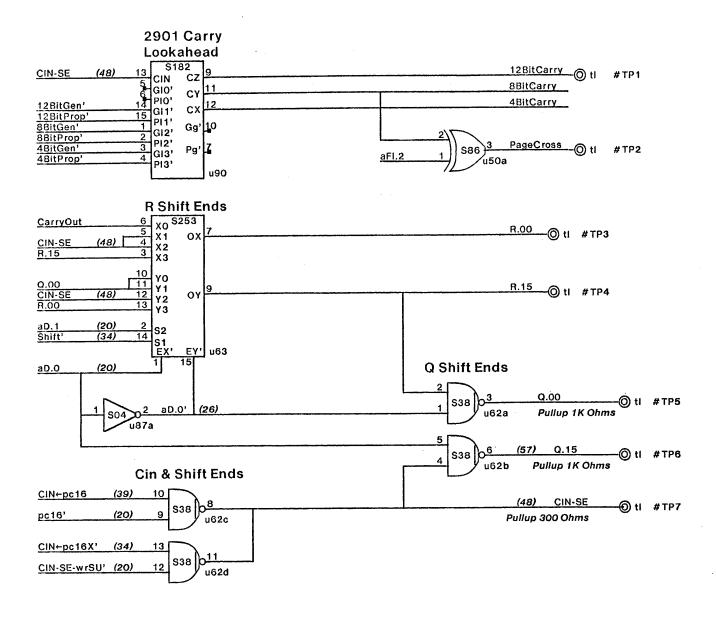




					_						
	u81p		u	80p			v8p			v9p	1
	= GND = VCC		= GND = VCC		ı	= GND = VCC			= GND = VCC		СС
	30 10		30	10		30	10		30	10	
VC	2 ♦		$\Delta$			$\Diamond$			$\dot{\nabla}$		

290	10 Tim	ing	As of 10/05/82			
Setu	p sh,,aD	10				
Setu	o aF	30				
Setu	p aS	<b>30</b>				
rA	to G,P	37	rA	to Y	40	
D	to G.P	30	D	to Y	30	
	ŕ		Cn	to Y	22	
rA	to Cout	40	aS	to Y	35	
D	to Cout	30	aF	to Y	35	
Cin	to Cout	20	aD	to Y	25	

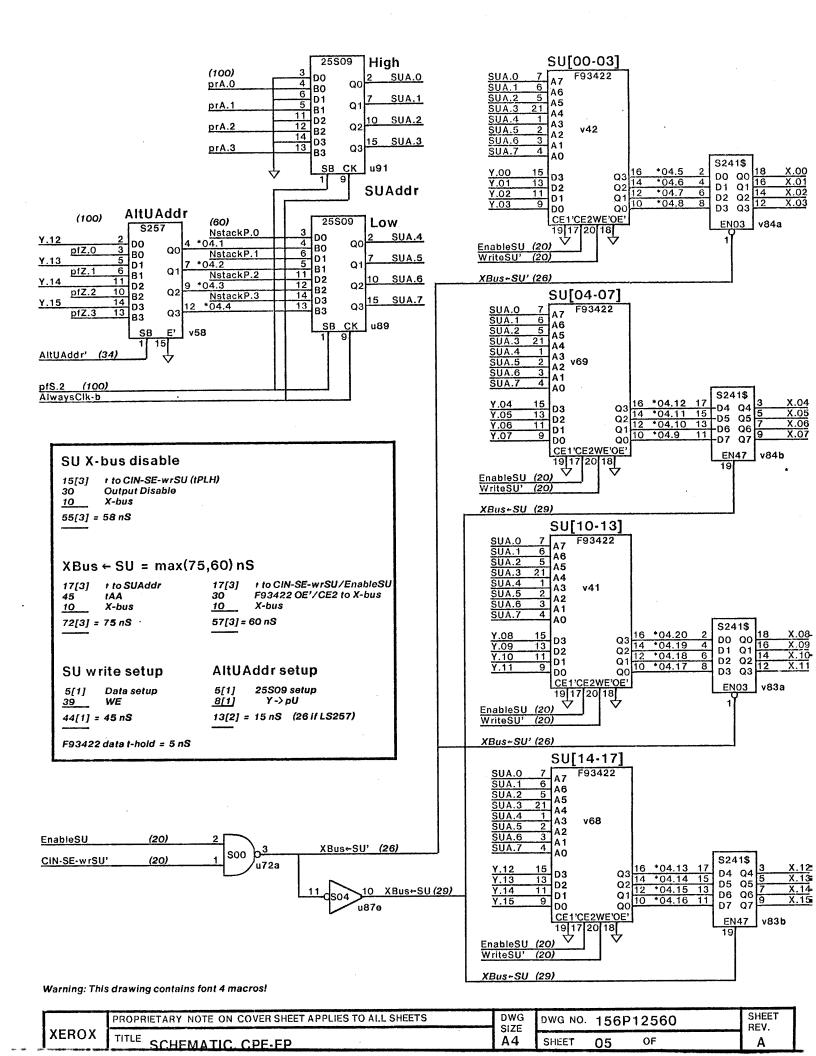
1 1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO. 156P12560		12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	03	OF	A A

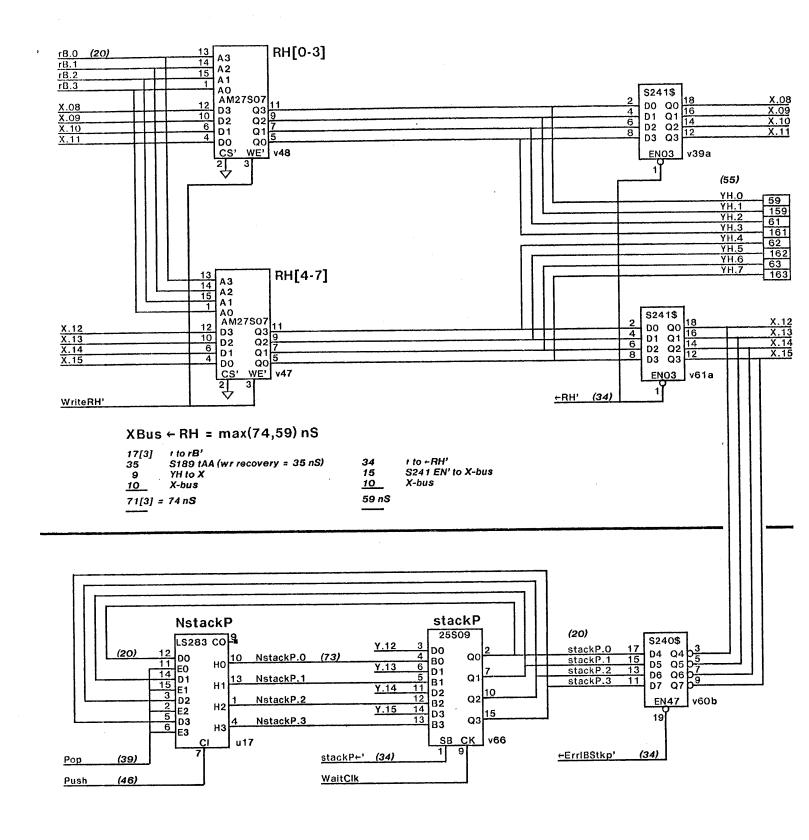


aD.1	Shift'	Shift configuration
0	0	Cout R Q ~Cin
0	1	Cin — R — ~ Cin
1	0	Cin — R — Cin
1	1	R

aD.0 = 0 implies right shift

1 1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO. 156P12560			SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	SIZE A4	SHEET	04	OF	A A





### **Push Timing**

t to Push Push to NstackP 24[3] <u>5[1]</u> 25S09 setup 75[4] = 79 nS

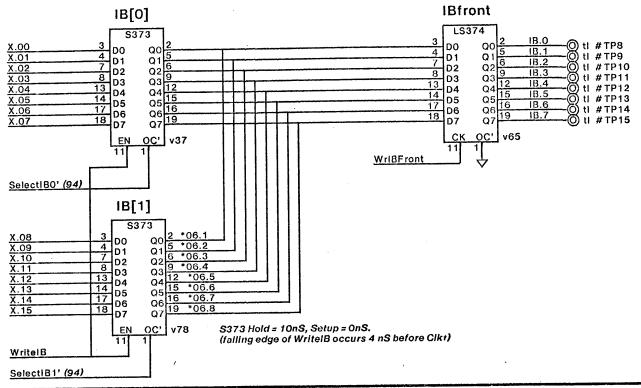
# XBus ← stackP = max(59, 38) nS

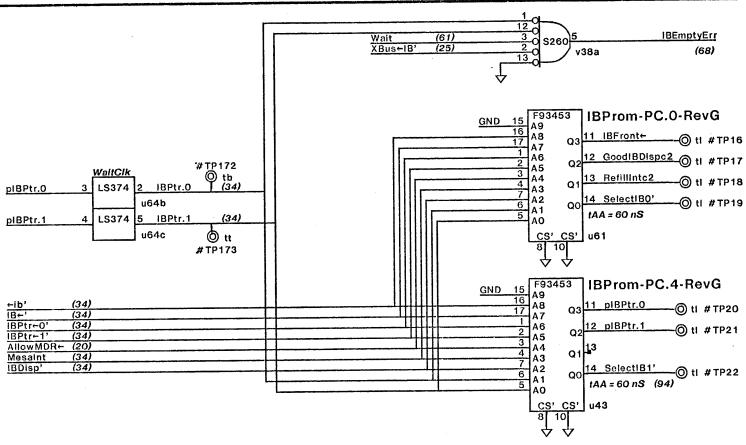
17[3] t to stackP S240 data to X-bus 10 X-bus 34[3] = 38 nS

t to +ErrIntstackP' 34 S240 EN' to X-bus 15 <u>10</u> X-bus

59 nS

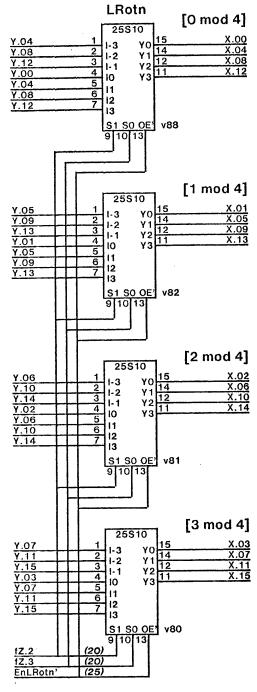
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	06	OF	Α



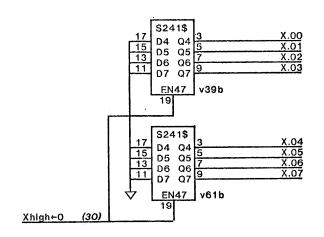


#### IBfront←IB[1] (Old Proms -- not 2nd sourced) Timing for HM7649 IBProm $IBFront \leftarrow Xbus = (x + 37, x + 36) nS$ t to IBPtr+1' 94 WritelB rises 34 Xhus to IB S373 EN to NB 60 tAA S373 Data to NB 18[2] 13[1] WriteIB rises 43 nS before end of cycle 43 SelectIB1' to NB 20[2] LS374 setup 18[2] <u>- 6</u> Difference between S373 "EN to Q" and "Data to Q" = LS374 setup 20[2] 18[2] - 13[1] = 6 nS. Data can arrive 6 nS after WritelB goes high. LS374 setup 20[2] 132[4] = 136 nS x+36 nS x + 37 nS132[4] = 136 nS

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P1	2560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	07	OF	Α



fZ.2	fZ.3	Rotate
0	0	Left 0
0	1	Left 12
1	0	Left 8
1	1	Left 4



Xbus ← Y LRotn = max(y + 22, 56, 50) nS

y t to Y bus 12 25S10 data in to out 10 X-bus y + 22 nS

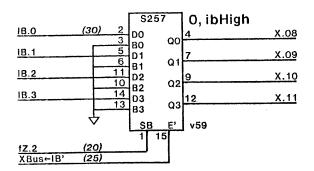
25 t to EnLRotn' 21 25S10 OE 10 X-bus 56 nS

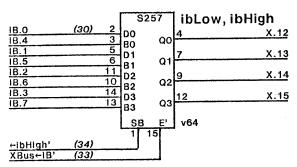
20 t to fZ.2 20 25S10 Select to X-bus 10 X-bus 50 nS

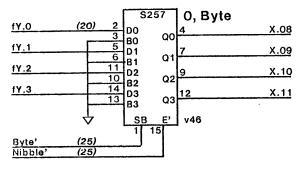
LRotn disable X-bus

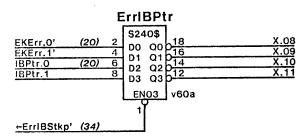
25 r to EnLRotn' 15 25S10 OE' to X-bus 10 X-bus 50 nS

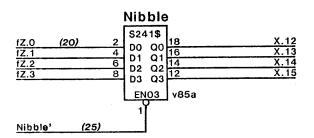
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P1	256 <b>0</b>	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	08	OF	A











#### IB disable X-bus t to XBus+IB' 25 S257 E' to X-bus 14 X-bus 10 49 nS Byte disable X-bus t to Nibble' S257 E' to X-bus 10 X-bus 49 nS Nibble disable X-bus t to Nibble' 25 15 S241 EN' to X-bus 10 X-bus 50 nS Xbus←IB = max(56,56,59) nS 34[4] S257 data to Xbus 8 10 X-bus 52[4] = 56 nS t to Xbus+IB' 25 S257 E' to Xbus 21 X-bus 10 56 nS t to+ibHlgh' 34 S257 SB to Xbus 15 10 X-bus 59 n**S** Xbus ← Nibble = max(39, 50) nS 20 t to fZ S241 data to X-bus 9 10 X-bus 39 n**S** 25 t to Nibble' S241 EN' to X-bus 15 X-bus 10 50 nS Xbus ← Byte = max(38, 56,50) nS 20 S257 data to X-bus 8 X-bus 10 38 nS 25 t to Nibble S257 E' to X-bus 21 X-bus <u>10</u>

Warning: This drawing contains font 4 macros!

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	09	OF	A

56 nS

t to Byte' S257 SB to Xbus

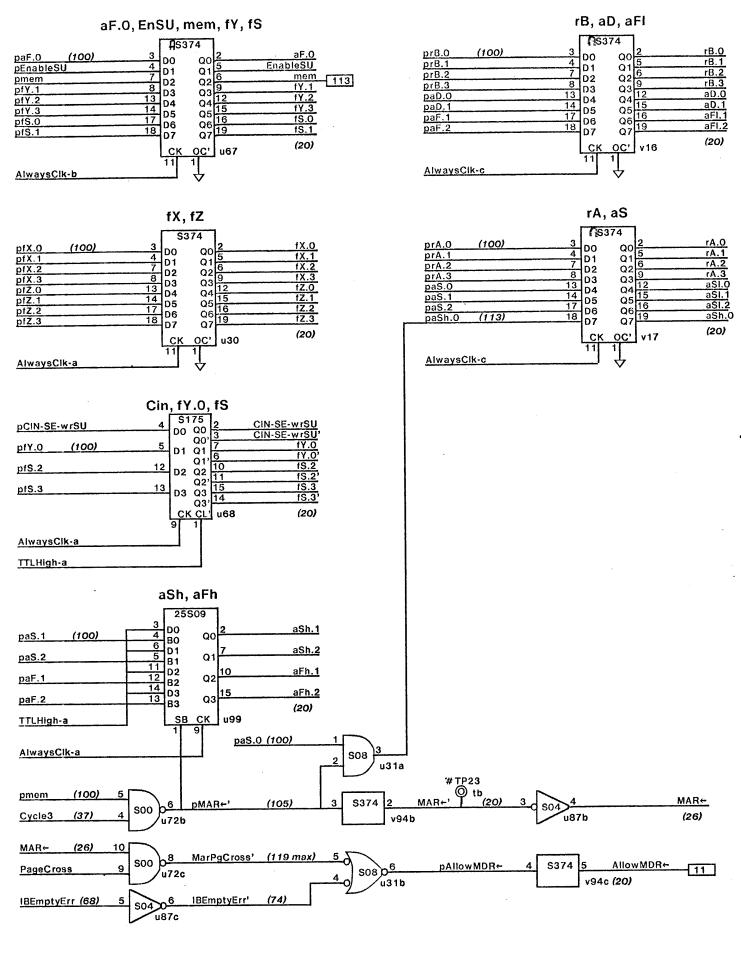
See stackP timings for ErrIBPtr

X-bus

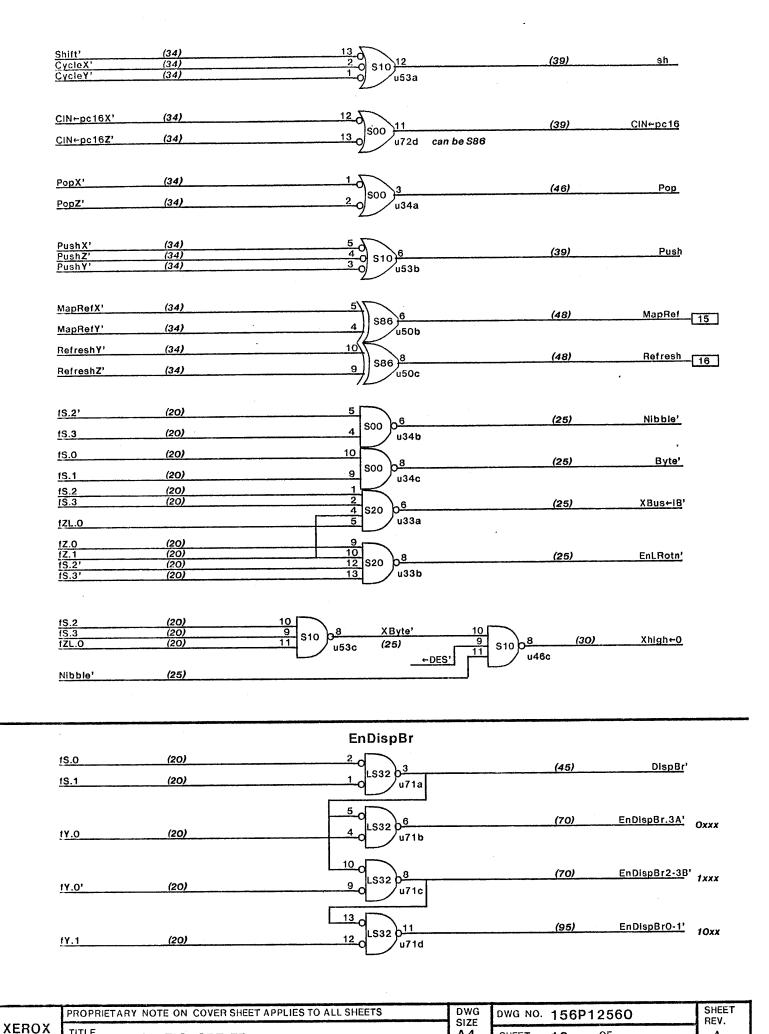
25

15

<u>10</u> 50 nS



	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	10	OF	A A



**A4** 

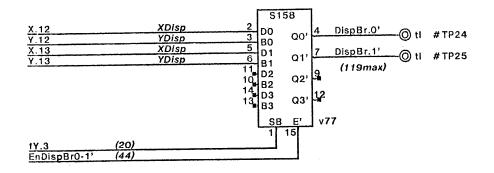
SHEET

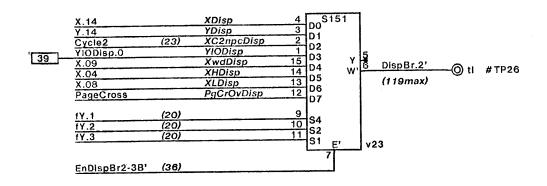
12

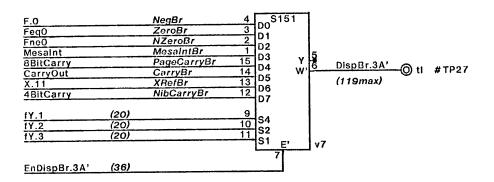
Α

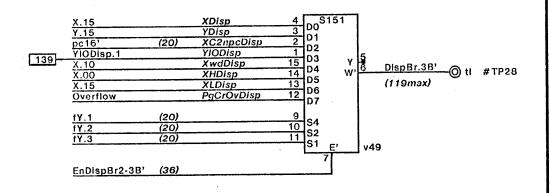
TITLE

SCHEMATIC. CPE-FP









```
DispBr[0-1] = max(c + 32,69,133)
```

64[3] = 69

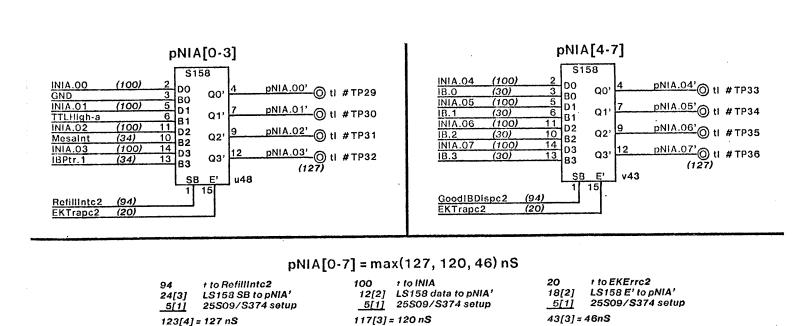
c condition source
12[2] S151 data to DispBr
18 DispBr' setup
c+30[2] = c+32

#### DispBr Setup

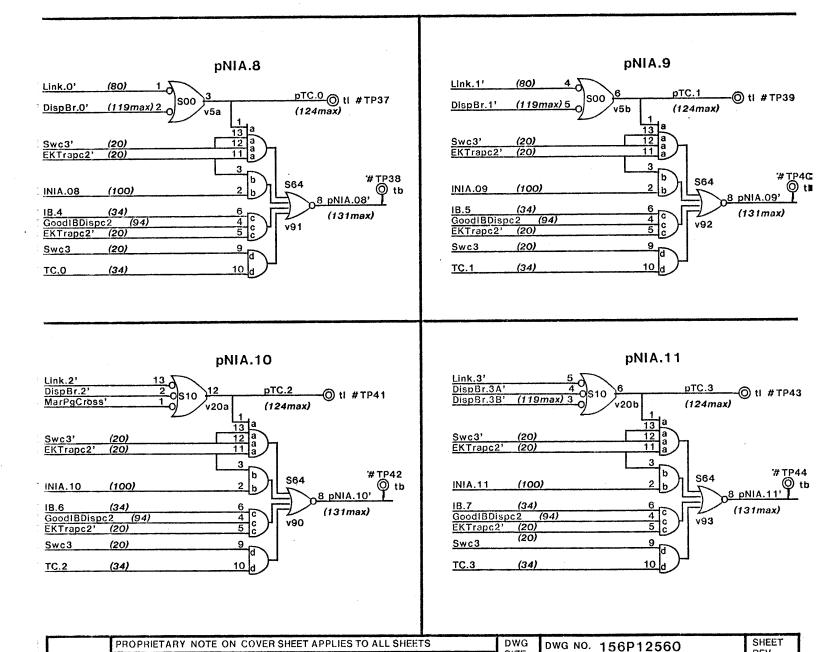
5 S00 in to pTC 6[1] S64 in to pNIA 5[1] 25S09/S374 setup 18 nS

# DispBr[2-3] = max(c + 26,55,103)

c condition source 7[1] S151 data to DispBr 18 DispBr' setup c+23[3] = c+26 nS



# (See page 11 for pNIA[8-11] timing)



**XEROX** 

TITLE

SCHEMATIC, CPE-FP

SIZE

A4

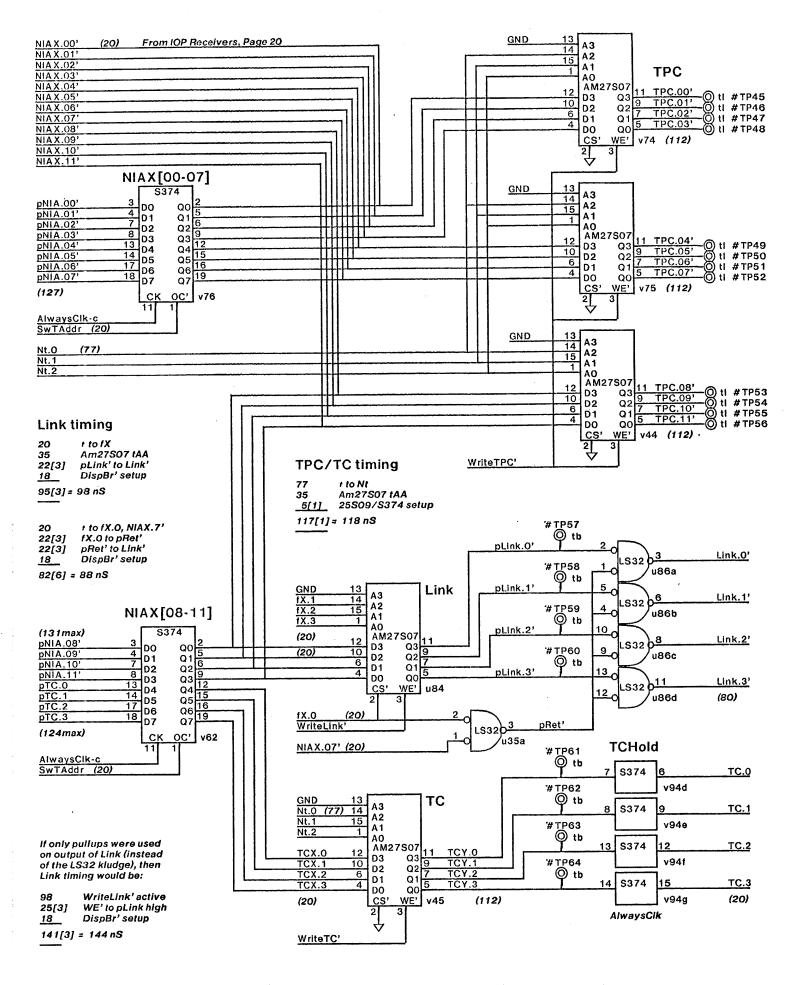
SHEET

14

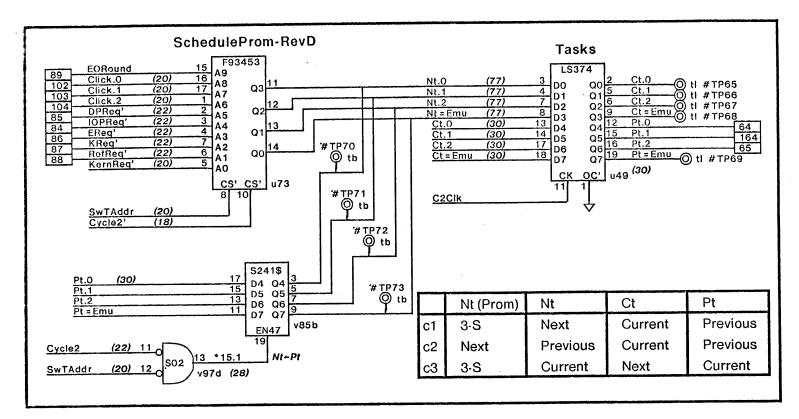
REV.

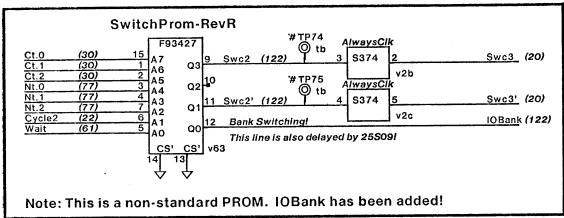
Α

OF



ý 3	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CDE.ED	SIZE A4	SHEET	15	OF	A A





# Task Numbers

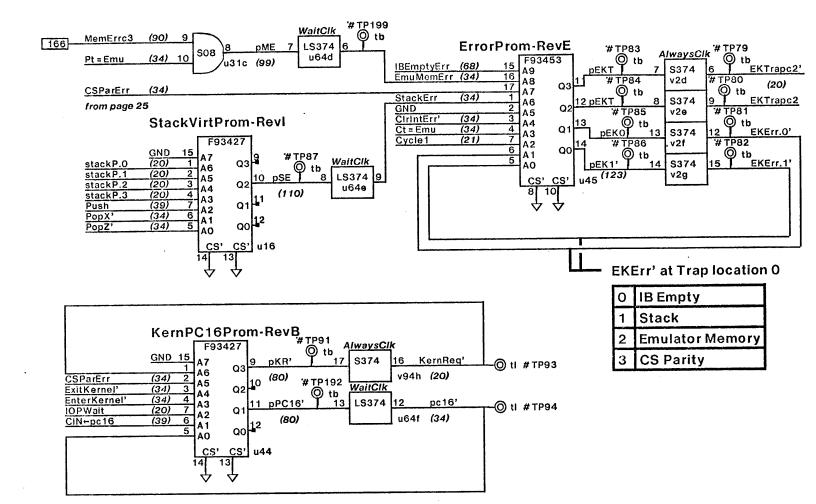
	<u> </u>
0	Emulator
1	Display/LSEP
2	Ethernet
3	Refresh
4	Disk
5	IOP
6	Control Store R/W
7	Kernel

```
Swc2 timing = max(133,101,101)
                                        t to SwTAddr
F93453 CS' to Nt
                                                                        t to Nt-Pt
                                                                28
22
        to Kreq'
                                20
                                                                        S241 EN to Nt
                                                                15[2]
        F93453 addr to Nt
                                25
                                        F93427 addr to Swc2
                                                                        F93427 addr to Swc2
                                                                45
        F93427 addr to Swc2
                                45
                                10[1] 25S09 SB setup
                                                                10[1]
                                                                       25S09 SB setup
10[1] 25S09 SB setup
                                100[1] = 101 nS
                                                                98[3] = 101 nS
132[1] = 133 nS
```

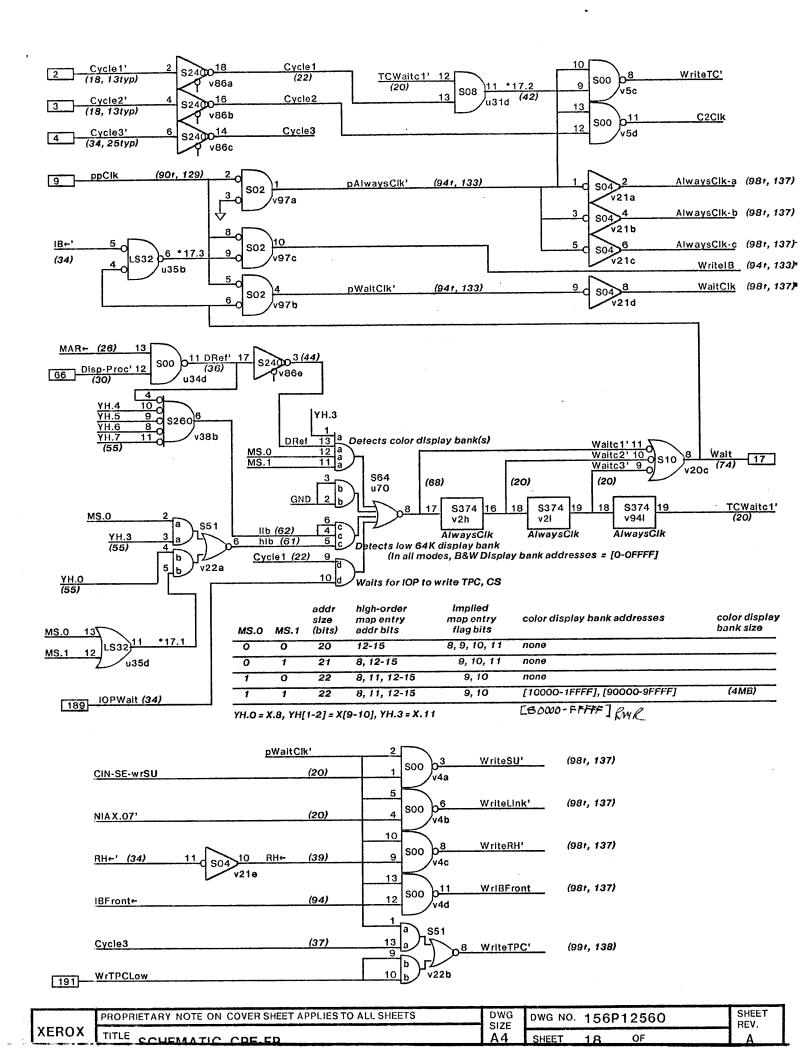
#### Click Assignment

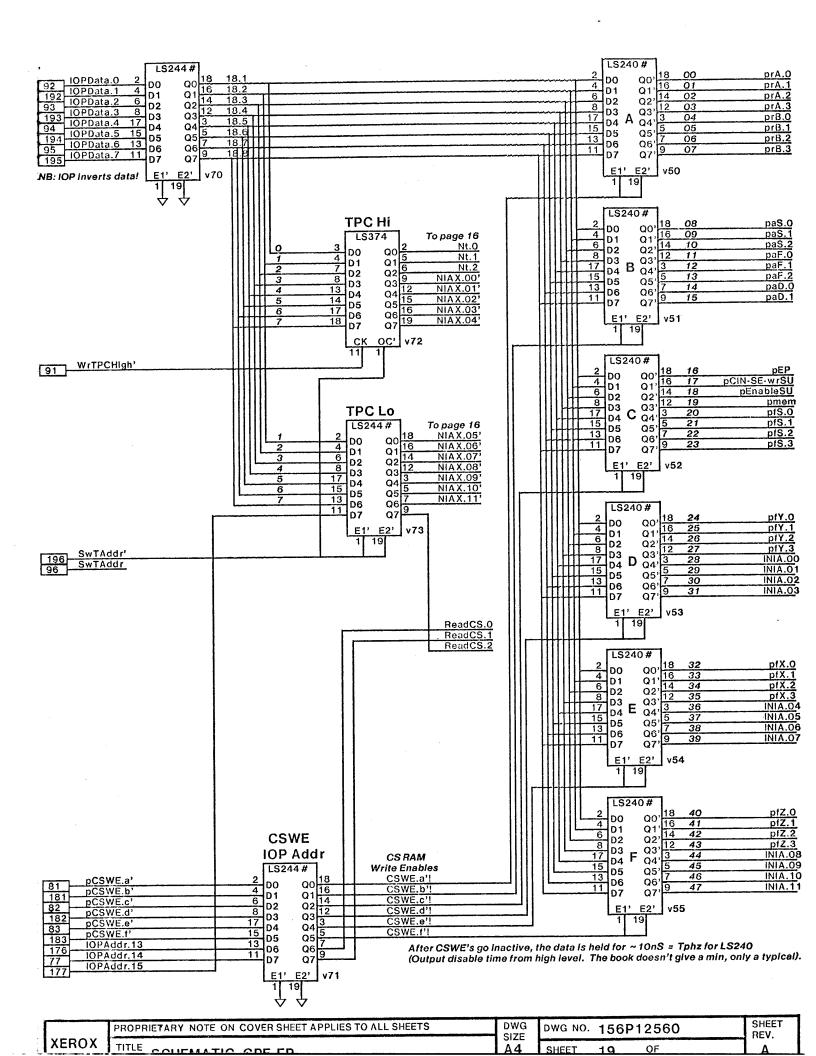
0	Ethernet	
1	Disk	
2	IOP	Notes:
3	Ethernet/Disk	When Disk = SA4000, Click 3 is Ethernet only.  When Disk = Trident, Click 3 is Ethernet on even rounds, Trident on Odd rounds (ie, 10-click round)
4	Display/LSEP/Rfrsh	The Display & LSEP-refresh tasks never both use Click 4

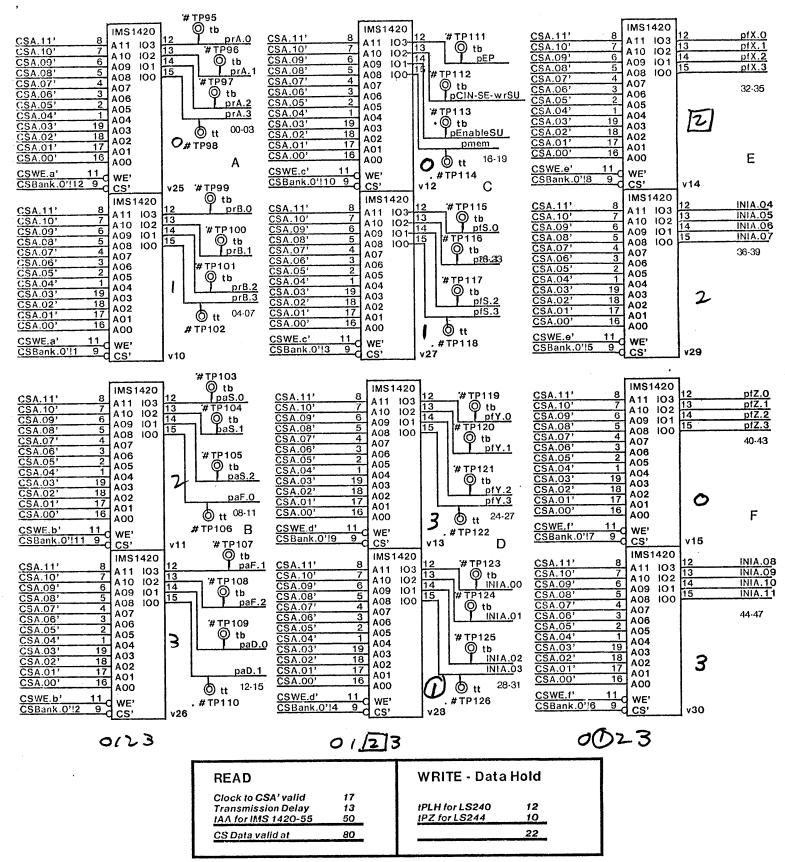
I		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET
- 1	VEDAV		SIZE				 REV.
	XEROX	TITLE SCHEMATIC CDF.FP	Α4	SHEET	16	OF	Α
Jan.	PROFESSION OF THE PARTY OF THE	<u> </u>					



	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CPF-FP	A4	SHEET	17	OF	Α

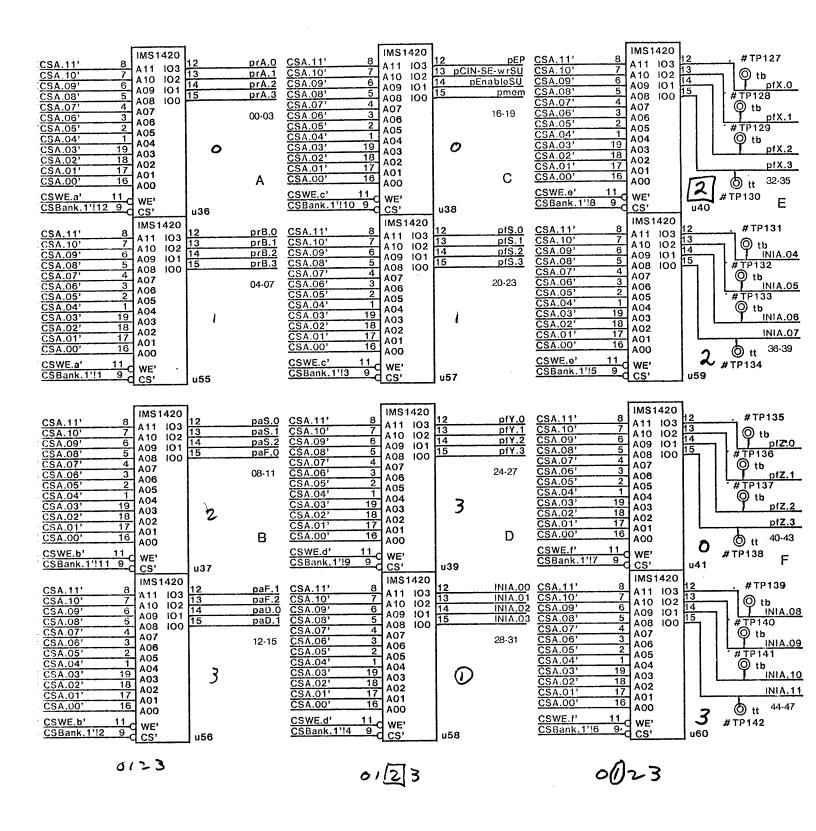




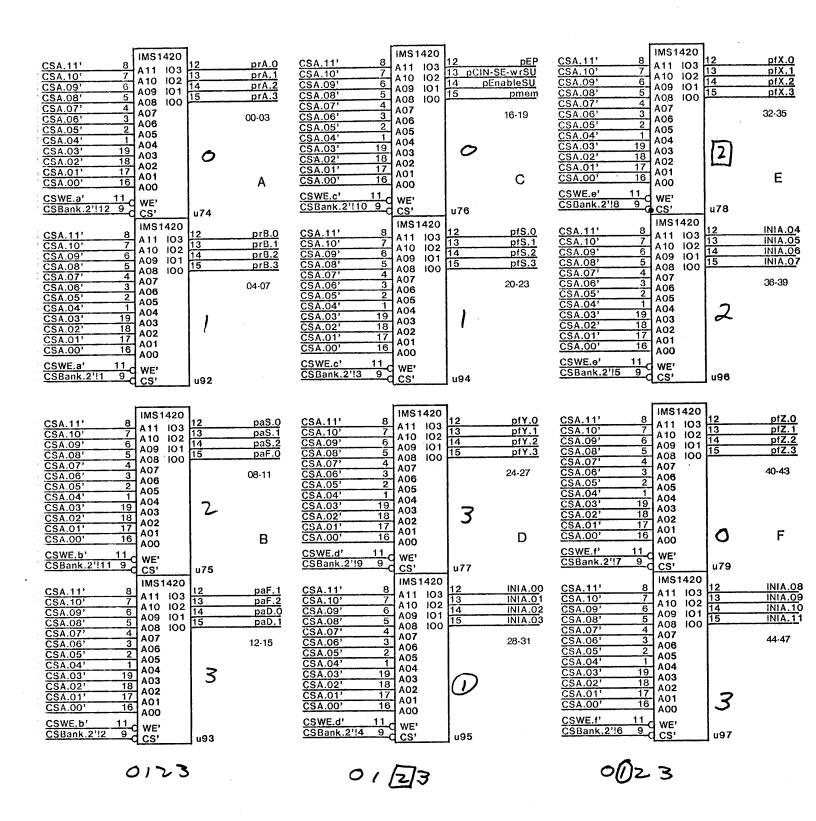


This suggests that IMS 1420-70 would also work without any trouble.

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE COURTE COR CD	Δ4	SHEET	20	OF	Λ.



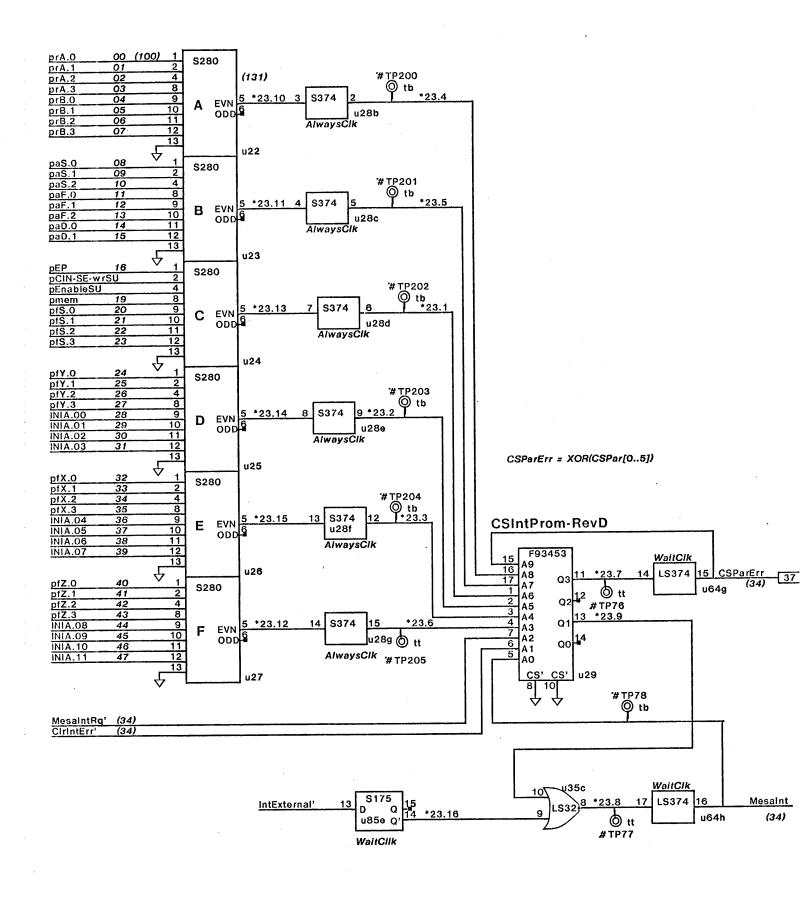
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CDE.ED	A4	SHEET	21	OF	Α



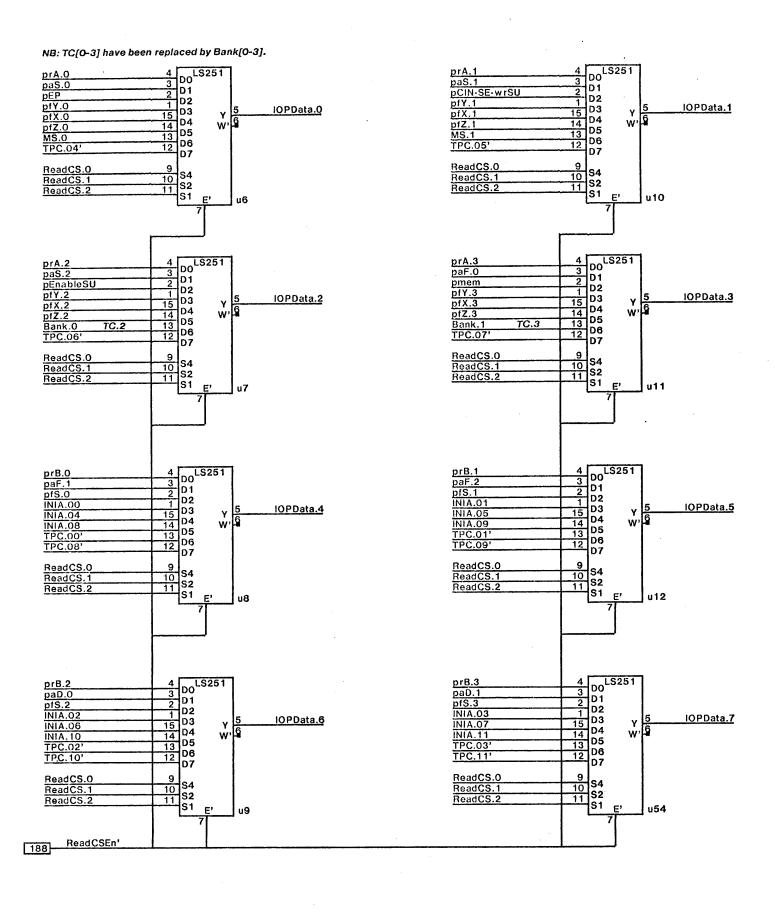
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P	12560	SHEET
XEROX	TITIE	SIZE	OUECZ.		^_	REV.
-	THE SCHEMATIC CDE.ED	A4	SHEET	22	OF	 Α

The control Store has been removed to make room for the floating point module.

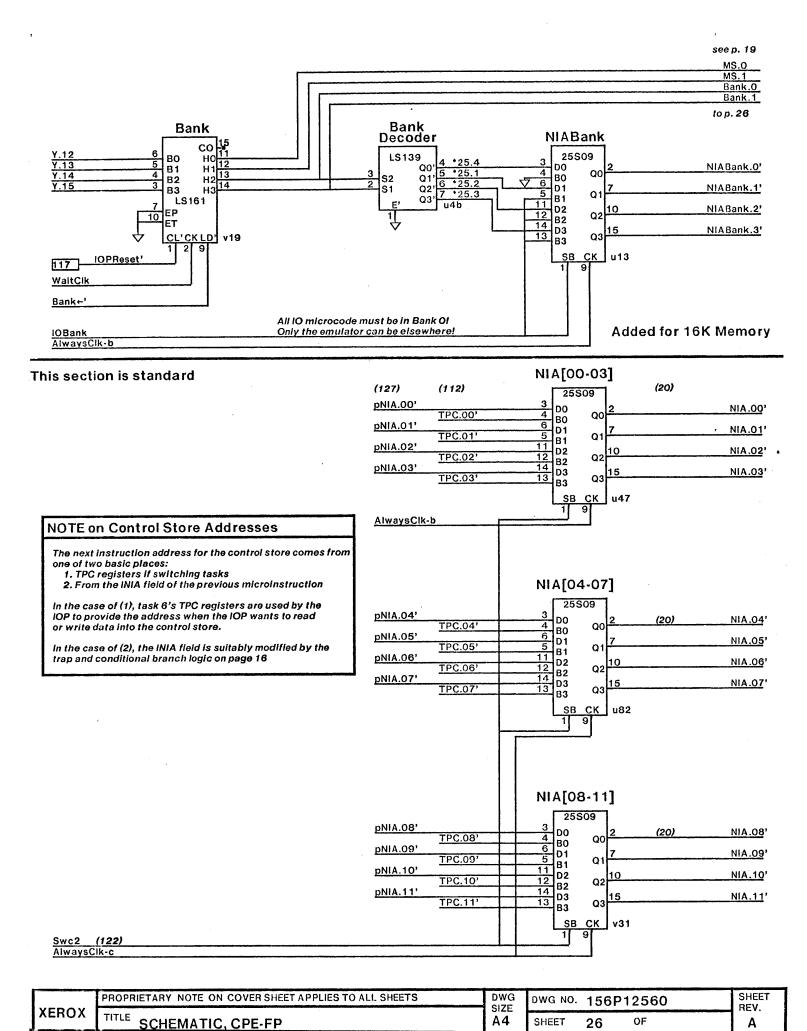
1 1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P	12560	SHEET
XEROX	TITLE SCHEMATIC CPE-FP	SIZE A4	SHEET	23	OF	REV.

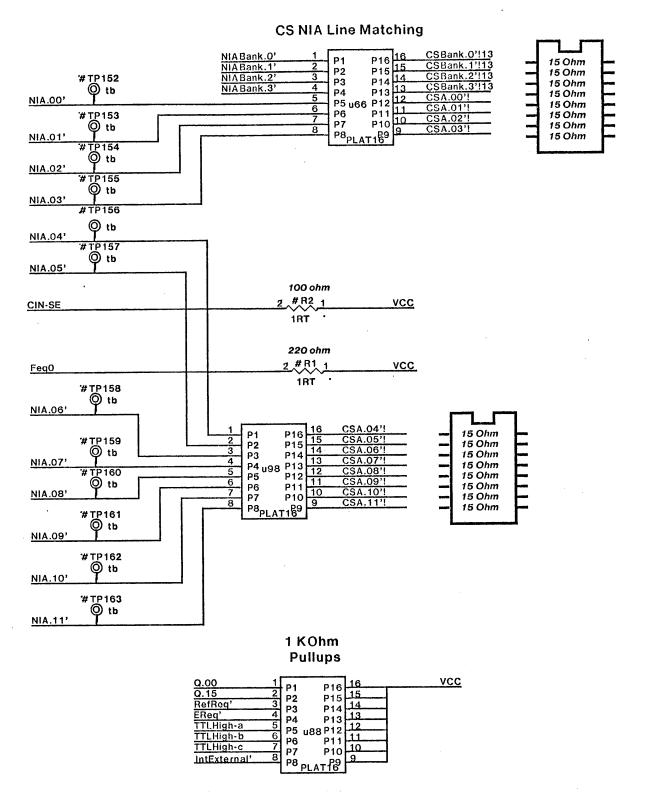


	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P1	12560	SHEET
Lycnov		SIZE		100.		REV.
XEROX	TITLE SCHEMATIC CDE.ED	Α4	SHEET	24	OF	
Topicamore: Harding at Marie 1	I SCHEMATIC, CPE-FP	7.	0.1227	47		



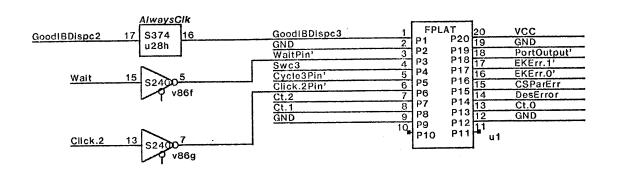
XEROX TITLE SCHEMATIC CREED DWG NO. 156P12560 SHEET REV.								
XEROX TITLE COLEMATIC COE ED A4 SHEET 25 OF A			PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P	12560	
	XE	EROX	TITLE SCHEMATIC CDE.ED	A4	SHEET	25	OF	A A



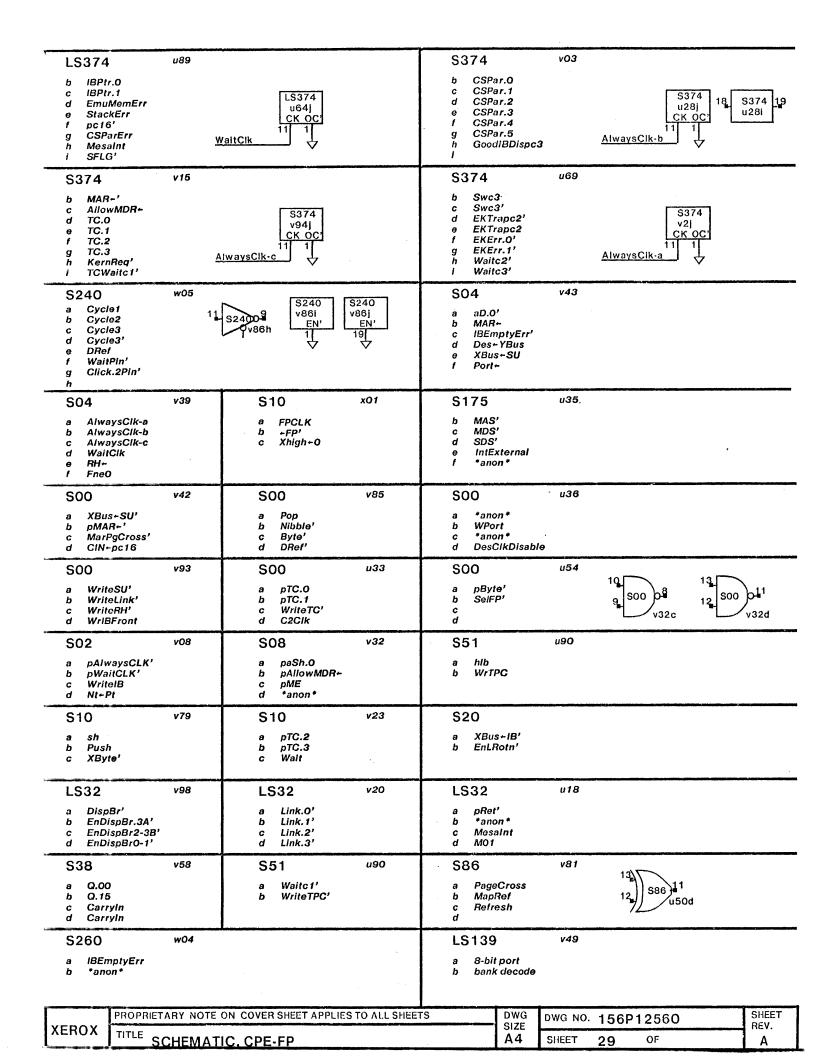


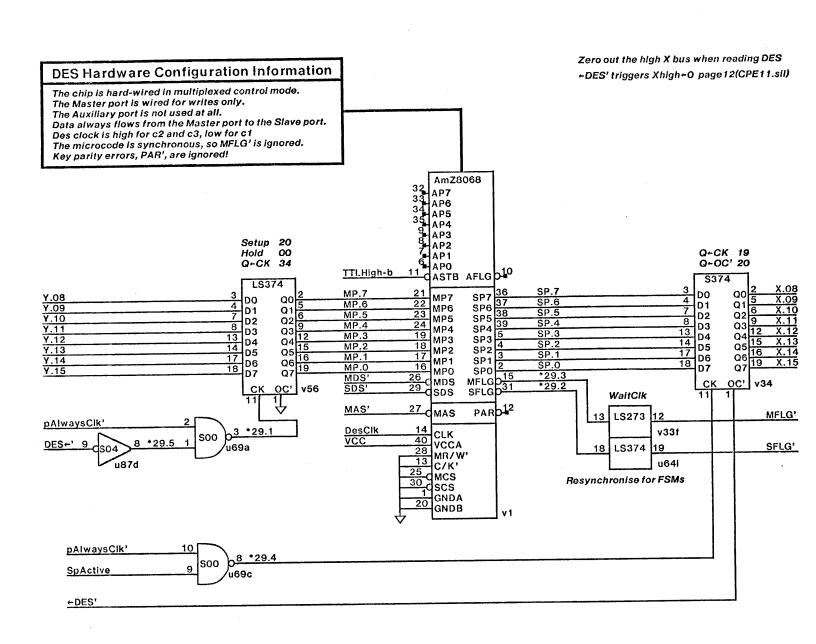
Beckman Resnet DIP 898-1-1K

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P12560		SHEET REV.
XERO	TITLE SCHEMATIC, CPE-FP	SIZE A4	SHEET	27	OF	 A
the second second						



GND	1	FPL	AΤ	20	CSA.08'
AlwaysClk-b	2	P1	P20	19	CSA.07'
MS.1	3	P2	P19	18	CSA.06'
MS.O	4	Р3	P18	17	CSA.05'
Bank.1	5	P4	P17	16	CSA.04'
Bank.0	6	P5	P16	15	CSA.03'
CSA.11'	7	P6	P15	14	CSA.02'
CSA.10'	8	P7	P14	13	CSA.01'
CSA.09'	9	P8	P13	12	CSA.00'
GND	10	P9	P12	11	GND
		P10	P11	น5	

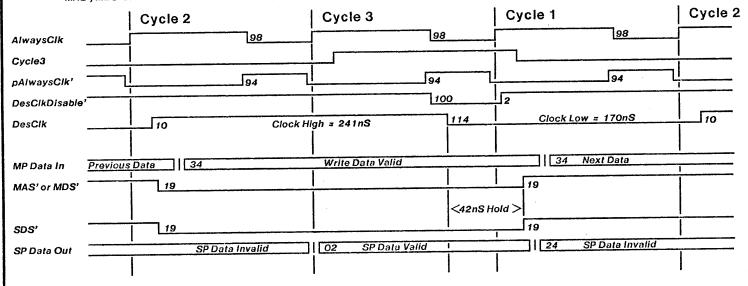


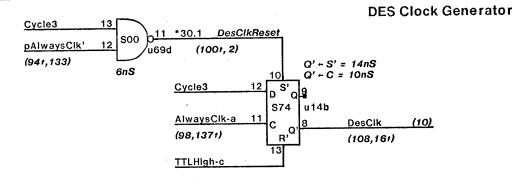


	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156F	12560	,	SHEET REV.
XEROX	TITLE COURMATIC ORE ER	A4	SHEET	30	OF		Α

Clock & Reset  Clock width HIGH Clock width LOW Clock Cycle Clock High to MAS'&MDS' High	Reset Hold	AMD # 1 2 3 6	min. 115 115 250 O	max. 50	actual used 241 170 411	Notes
MP and SP Strobe Times  MAS' falling to MAS' rising (address) MDS' falling to MDS' rising (data) MDS' rising to MDS' falling SDS' falling to SDS' rising (data read) SDS' rising to SDS' falling  Clk falling to MDS' rising Clk falling to SDS' rising	MAS width Low MDS width Low MDS Recovery SDS width Low SDS Recovery MDS Hold SDS Hold	32 44a 46 44a 46 45 45	80 125 125 125 125 125 20	1000 1000 70 70	274 274 137 274 137 42 42	Can't exceed 1000, so have to watch out for WaitClk Can't exceed 1000, so have to watch out for WaitClk This is the difficult bit! See circuitry below. This is the difficult bit! See circuitry below.
MAS Write into Master Port  Data Valid to MAS' rising Data Hold after MAS' rising	Address Setup Address Hold	36 37	55 60		268 243	
MDS Write into Master Port  Data Valid to MDS' rising Data Hold after MDS' rising	Data Setup Data Hold	47b 48	125 80		268 243	
SDS Read from Slave Port  SDS falling to Data Valid SDS rising to Data Invalid SDS falling to SFLG rising	SP Access SP Data Hold SP Flag	49b 50 51	5	120 125		for last byte read

Because of the requirement to hold MDS' and SDS' for 20 to 70 nanoseconds after DesClk falling, we bring DesClk down early in Cycle 3. MAS', MDS' and SDS' follow at the end of Cycle 3. Note:





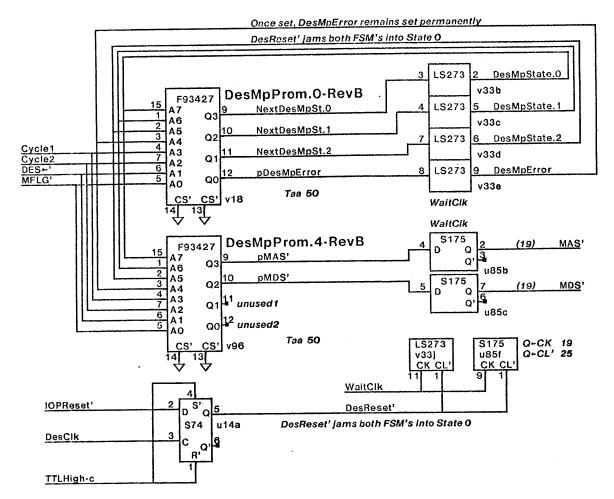
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS
XEROX	TITLE SCHEMATIC, CPE-FP

DWG NO. 156P12560 OF SHEET 31

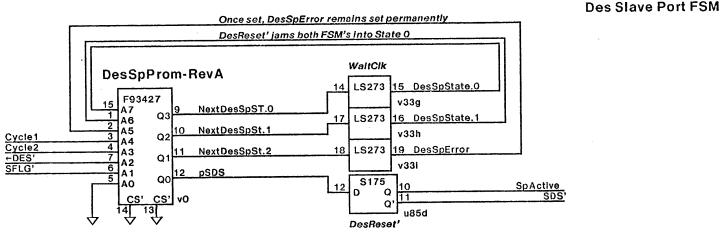
DWG

SIZE Α4

SHEET REV. Α

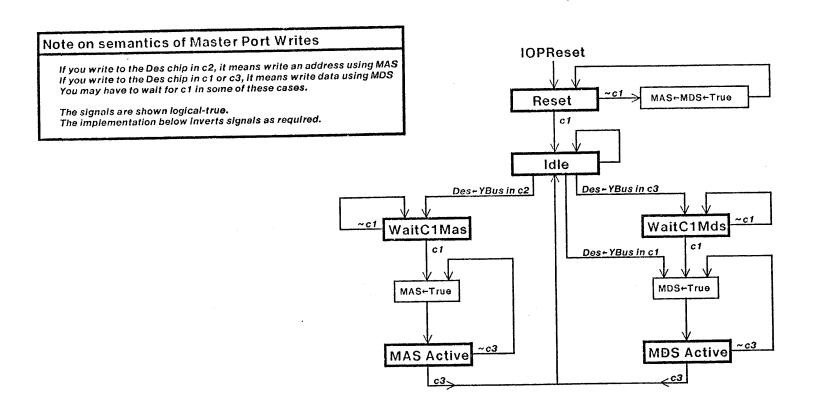


Des Master Port FSM



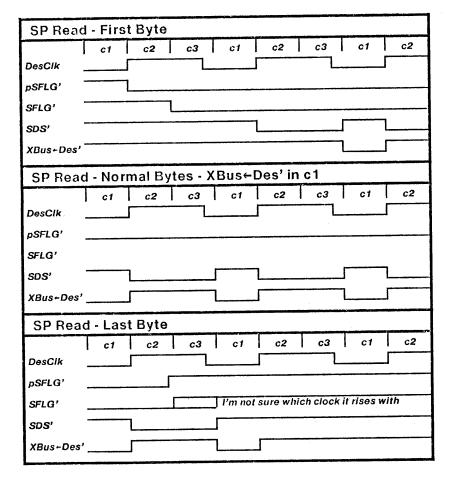
Reset Des Chip and FSM's with IOPReset' c3 c3 AlwaysClk DesClk IOPReset' DesReset' MAS' and MDS' forced low while DesReset', held low one more DesClk by DesMpFsm MAS'/MDS'

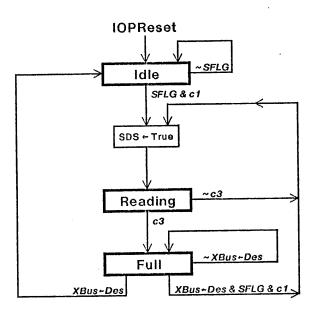
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	32	OF	Α



# Master Port Finite-State Machine - Error handling of DesMpError signal is not shown

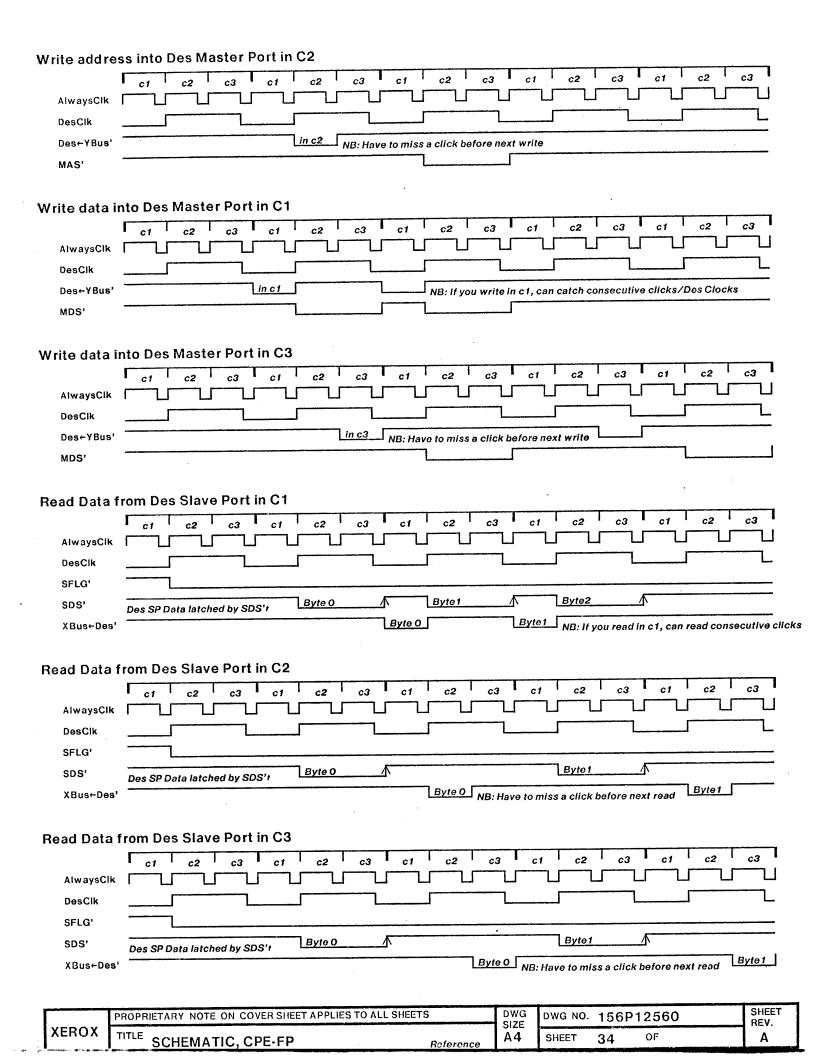
Slave Port Finite-State Machine - Error handling of DesSpError signal is not shown

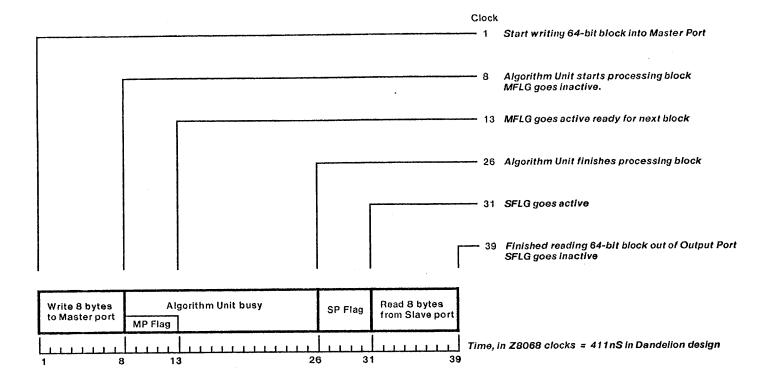




The signals are shown logical-true. The implementation below inverts signals as required.

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CDF.FD	A4	SHEET	33	OF	Α





# WARNING! This data is not guaranteed to be correct!

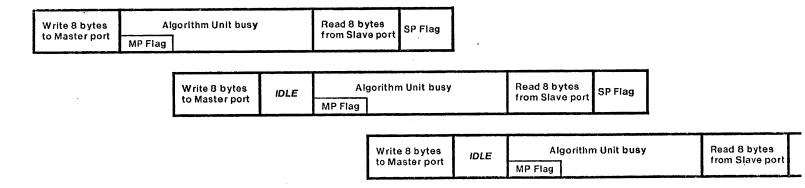
#### NOTES:

The longest operation in encrypting a block is the time it takes to get the data through the algorithm unit, 18 clocks. Therefore, this is the bottleneck in the pipelining scheme, and the software must aim to keep the Algorithm unit fully busy.

Apart from the first and last blocks, the time taken to encrypt the middle blocks is 18 clocks.

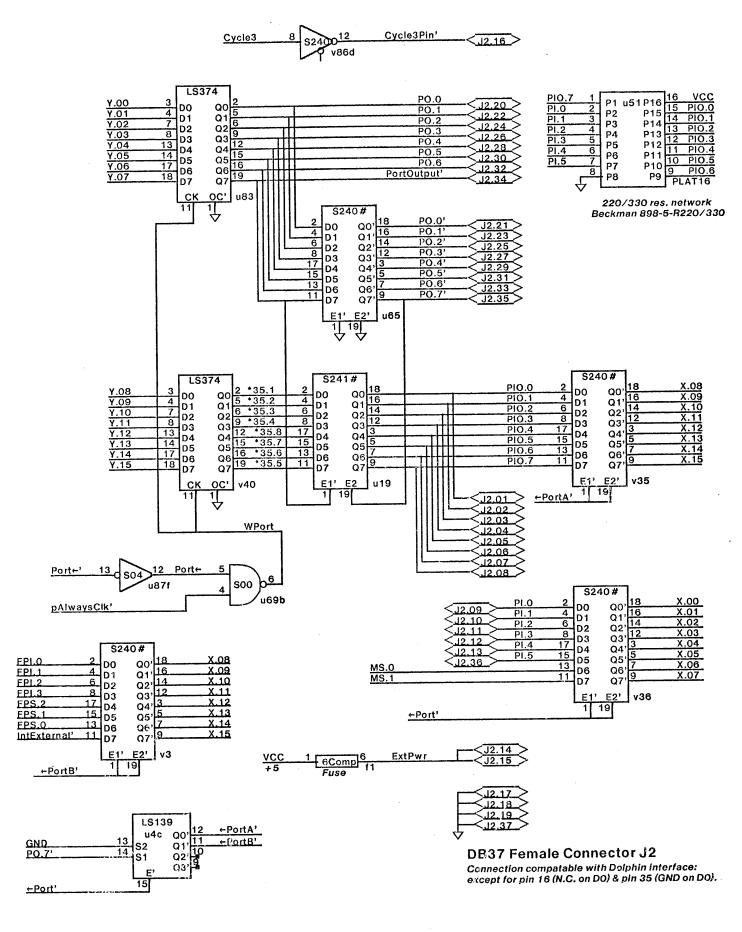
### One possible pipelining scheme

# WARNING! This data is not guaranteed to be correct!



#### WARNING! This data is not guaranteed to be correct!

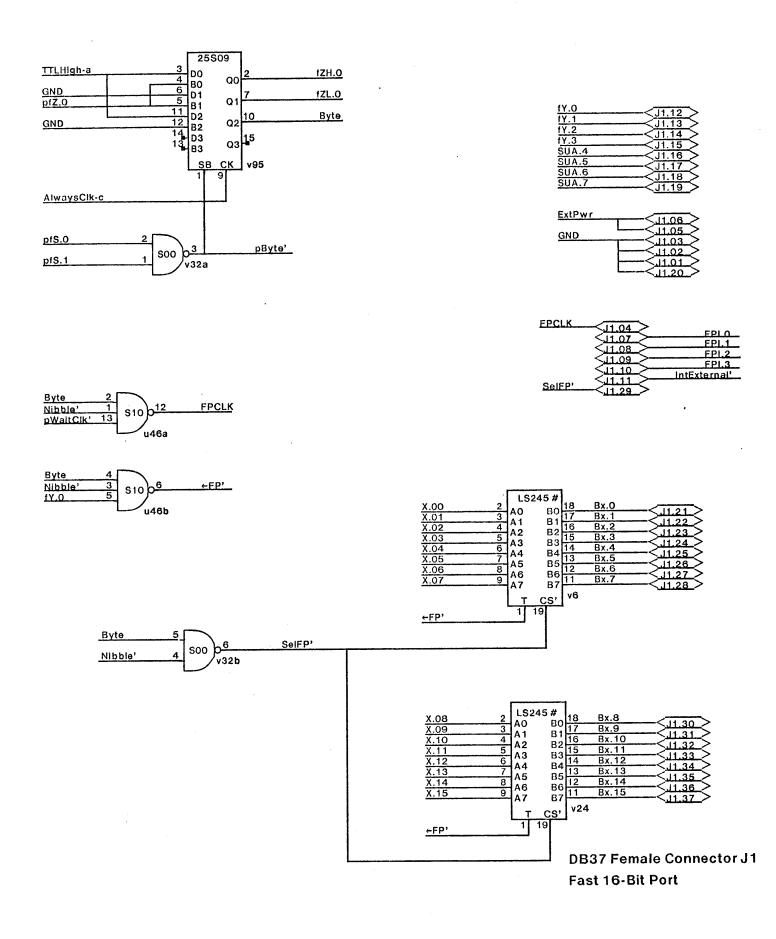
l ·	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL S	SHEETS	DWG SIZE	DWG NO.	156P1	2560	SHEET REV.	1
XEROX	TITLE SCHEMATIC. CPE-FP	Reference	A4	SHEET	35	OF	Α	



7.	CLUT WATER	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	4560	12560	SHEET
ě	!	PROPRIETARY NOTE ON GOVER SHEET AFFEILS TO ALL OHELTS		DWG NO.	1000	12300	REV.
ŧ	vrnav I	CONTRACTOR OF THE PROPERTY OF	3146		The second secon		
4	VERAY	TITLE COUSMATIC COS.ED	A 43	SHEET	36	OF	ΙΔ
	1	SCHEMATIC, CHEMP			<b>∿1 €</b> 9		

cc					<del></del>	٦
. #C123,	2 # C42 1	2*# C68	#C119 2   1	#C4	2*# C28 1	. #C147
1RT +	1RT * ·	1RT * ·	1RT +	1RT + . . # C5	1RT T	1RT + . #C141
. # C45 2   1	. # C41 2   1 1RT + .	2   1 1RT + -	2   1 1RT + .	2    1 1RT + ·	2 # C93 1 1RT + .	2 1 1
1RT * ·	1 1	1	1 1	1RT * .		1RT + .
. # C95	.#C40 2   1 1RT + .	2   C66	.#C117 2   1 1RT + .	$\begin{vmatrix} 2 & 1 \\ -1 & 1 \end{vmatrix}$	2**C51 1	2   1 1RT +
1RT * ·	1RT *	1RT * ·	1RT * ·	1RT *	1RT *	
. # C76	. # C39	. # C86	2 <sup>#C116</sup> 1 1RT + .	#C31 2   1 1RT + .	# C90 2   1 1RT + .	. #C150 2   1
1RT * ·	1RT +	1RT * -	1RT * ·	1RT * ·	1RT * ·	1RT * ·
. #C97	. # C38	. # C85	. #C115	# C6 2   1	2 # C77 1	. #C152 2   1 - 1
2   1 1RT + ·	2   1 1RT + ·	2   1 1RT + .	2   1 1RT + ·	1RT +	1RT * ·	1RT *
. #C91	. # C37	. #C84	. # C114	. # C8	2 # C63 1	. #C151 2   1
2   1 1RT * ·	2   1 1RT + ·	2   1 1RT + ·	2   1 1RT + ·	2   1 1RT + ·	1RT + ·	1RT + ·
. #C92	. # C59	. # C83	. # C53	. # C32	# C30 2 11 1	. #C137
2   1   1   1   1   1   1   1   1   1	2   1 1RT + ·	2   1 1RT +	2   1 1RT + ·	2   1 1RT + .	2   1 1RT * ·	1RT + ·
. #C105	. # C58	. # C82	. # C52	. #C29	2 #,C15 <sub>4</sub>	. #C136
2   1 1RT + ·	2   1 1RT + ·	2   1 1RT + .	2   1 1RT + ·	2   1 1RT + ·	2 #C15 <sub>1</sub>	2   1 1RT + ·
			. # C44	. #C10		. #C135
. # C78	. # C57 2   1	. #C81 2   1 1RT * ·	2   1 1RT + .	2   1 1RT + ·	2 #C14 1 1RT +	2   1 1RT + .
1RT *·	1RT * ·	1RT * .	1RT * .	1RT #C16	1 1	. #C138
. # C27	2   1 1RT +	2   1 1RT + .	2   1 1RT * ·	2   1 1RT + ·	2 <sup>#</sup> C13 1    1 1RT + .	2   1 1RT + ·
1RT + -	1RT *·	1RT * -			141	
.#C26	. # C55	. #C103	. # C75	. #C18	2*# C146 1	. #C139
2   1 1RT +	1RT * ·	1RT +	1RT *	1RT * ·	1RT * ·	1RT * ·
. #C25	. # C54	. #C102	.#C73	.#C19 2   1	2*C132 1	.#C140 2 1 1
1RT * .	1RT * ·	1RT * ·	1RT + ·	1RT + ·	1RT + ·	1RT + ·
. # C24	.#C71	. #C101	. # C72	. #C20	. #C144	. #C49
2   1 1RT + ·	2   1 1RT + .	1RT + -	1RT + ·	1RT + ·	1RT + .	1RT * ·
'			. # C89	# C50	.#C143	.#C125
. #C23	. # C70	.#C100 2   1	2 1	2 1	2 1 1	2_1_1
1RT + ·	1RT + ·	1RT + ·	1RT +	1RT + ·	1RT + .	1RT +
. # C22	. # C69	.#C99	. # C3	. #C9 2 1 1	. # C142 2 1 1	. #C126 2 1
1RT + .	1RT + .	1RT * ·	1RT * ·	1RT + .	1RT + .	1RT * -
			·			
7	<b>ታ</b> •	<b>.</b>	<b>7</b>	7	7 7	<b>▽</b>

	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XERO	TITLE SCHEMATIC, CPF-EP	A4	SHEET	37	OF	Α

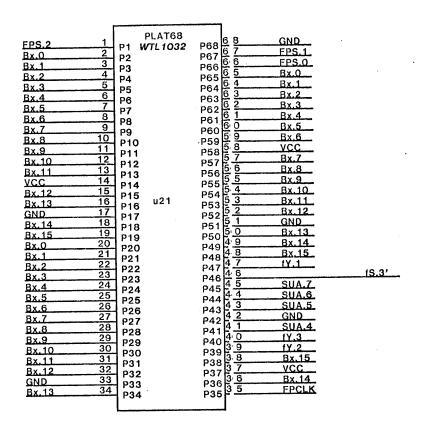


	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO. 156P12560		SHEET REV.		
XEROX	TITLE SCHEMATIC CDF.ED	SIZE A4	SHEET	38	OF .		A A

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Old contents merged with next page

Floating Point Timing Diagram to be done

	·					 CUEET	1
	ON COVER OUTET ARRIVES TO ALL SHEETS	DWG	DWG NO.	156D	12560	SHEET	ı
1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	SIZE	0 110.	1301	12000	 REV.	ı
VEDAV		1 -	OUEST.	-00	OF		1
XEROX	TITLE COLEMATIC ODE-ED	A4	SHEET	39	Ur	 	J.

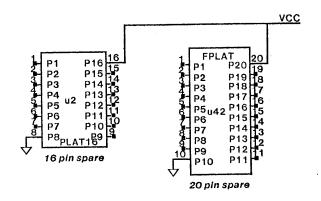


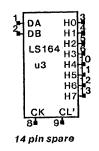
		•
FPS.2 1	PLAT68	0 DGG 68 GND
	P1 WTL103	3 Pos 6 7 FPS.1
Bx.0 2 Bx.1 3	P2	P67 6 6 FPS.O
Bx.2 4	P3 P4	P66 6 5 Bx.0
Bx 3 5	7 P4 P5	Bx.1
Bx.3 5 Bx.4 6 Bx.5 7	- P6	P63 6 3 Bx.2
Bx.5 7	P7	P63 6 2 Bx.3
Bx.6	7 P8	P61 6 1 Bx.4 P60 6 0 Bx.5
Bx.7 9	] P9	P60 6 0 Bx.5
Bx.8 10	P10	9 Bx.6
Bx.9 11	] F10	P58 5 8 VCC
Bx.10 12	1040	P57 5 7 Bx.7
Bx.11 13	P13	P56 5 6 Bx.8
vcc 14	l na a	P55 5 5 Bx.9
Bx.12 15	l nas	P54 5 4 Bx.10
Bx.13 16	P16	P53 5 3 Bx.11
GND 17	J D17 1120	P53 5 2 Bx.12
Bx.14 18	L D40	P51 5 1 GND
Bx.15 19	J p40	P50 5 0 Bx.13
Bx.0 20	P20	P49 4 9 Bx.14
Bx.1 21	1004	P48 4 8 Bx.15
Bx.2 22	Inna	P47 7 1Y.1
Bx.3 23	D00	P46 4 6 IS.2
Bx.4 24	1004	P45 4 5 SUA.7
Bx.5 25	1 505	P44 4 SUA.6
Bx.6 26	Inne	P43 4 3 SUA.5
Bx.7 27	1007	P42 4 2 GND
Bx.8 28	Ingo	P41 4 1 SUA.4
Bx.9 29	1 000	P40 4 0 1Y.3
Bx.10 30	11	P39 3 9 1Y.2
Bx.11 31	P31	P38 3 8 Bx.15
Bx.12 32	P32	9 P68 6 8 GND P67 6 6 FPS.0 P66 6 5 Bx.0 P65 6 4 Bx.1 P63 6 3 Bx.2 P62 6 1 Bx.4 P60 6 9 Bx.5 P60 6 9 Bx.5 P60 6 9 Bx.5 P60 6 9 Bx.6 P58 5 8 VCC P57 6 6 Bx.8 P55 5 8 Bx.9 P55 5 4 Bx.10 P53 6 5 8 Bx.11 P53 6 Bx.11 P53 6 Bx.11 P53 7 Bx.11 P54 7 Bx.11 P54 7 Bx.11 P54 7 GND P55 7 GND P56 7 GND P57 7 GND P58 7 GND P58 7 GND P58 7 GND P59 8 GND P40 4 GND P41 5 GND P41 5 GND P42 4 GND P41 4 GND P41 5 GND P41 5 GND P42 5 GND P43 6 GND P43 6 GND P43 6 GND P44 6 GND P45 6 GND P47 6 GND P47 7 GND P47 7 GND P48 6
GND 33	P33	P36 3 6 Bx.14
Bx.13 34	P34	P35 3 5 FPCLK

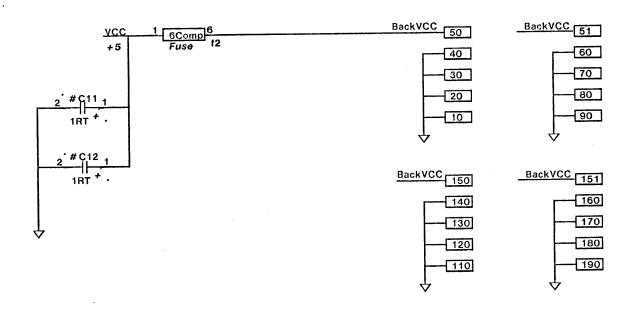
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	40	OF	Α

			<del></del> 1
2#C133 1 1RT + .	2 # C113 1 1RT + .	2 <sup>#C64</sup> 1	2 # C2 
	1 1	1 1	
2 <sup>#</sup> C129 1 1RT + ·	2 <sup>#</sup> C98 1 1RT + ·	2 <sup>#C1</sup> 1 1RT + .	2**C157 1 1RT * ·
1 1	1 1	#C62	#C158
2 # C130 1 1RT + .	2#C153 1 1RT + ·	2   1 1RT + ·	2   1 1RT +
		.#C60	#C154
2*#C127 1 1RT * ·	2*#C43 1 1RT * ·	2   1 1RT + ·	2   1 1RT +
			# C155
2*#C134 1 1RT * ·	2 # C80 1 1RT +	2#C111 1RT + .	2 # C155 <sub>1</sub>
	1		
2 <sup>:# C122</sup> 1 1RT + .	2 # C79 1 1RT + .	2 # C36 1 1RT + .	
1 1	1 1	1 1	
2**C110 1 1RT * .	2 #C96 1 1RT * ·	2 # C33 1 1RT + .	
.#C120 .	2. #Ç106,	2#C35 1	Ż
2*# C120 1 1RT * ·	2 #C106 <sub>1</sub>	2*#C35 1 	
	: # C04	#C34	
2 # C121 <sub>1</sub>	2 # C94 1 1RT + .	2 <sup>#</sup> C34 1	
1 1	Ì	1	
2 #C112 <sub>1</sub>	2**C87 1 1RT * ·	2 <sup>#</sup> C149 1 1RT + ·	
. #6494	. # 088	. #C21	
2 #C124 <sub>1</sub>	2 # C88 1 1RT + .	2    1 1RT + .	
2 #C131 <sub>1</sub>	2 <sup>#</sup> C61 1 1RT + ·	2 #C17 1 1RT * ·	
		2 # C48 1	
2 # C108 <sub>1</sub>	2 # C65 1 1RT + .	1RT + ·	
	#C47		
2 #C128 <sub>1</sub>	2 1 1	2 # C107 <sub>1</sub>	
1RT * ·	1RT *	1RT * ·	
2. #C109 <sub>1</sub>	2*#C145 1	2 # C74 1	
18T * -	1RT * ·	1RT + -	
	<b>↓</b>	<b>♦</b>	
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						1
	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG	DWG NO.	156P1	12560	SHEET REV.
XEROX	TITLE SCHEMATIC CDE-ED	SIZE A4	SHEET	41	OF	Α
-						The State of Street, or other Desirements







	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156P	12560	SHEET REV.
XEROX	TITLE	SIZE	OUEET	4.0	OF	 Λ.
1.2	IIILE SCHEMATIC. CPE-FP	A4	SHEET	42	UF	 A

## Comments:

Designator notation notes: u1-99 = U1-99, v0-99 = U100-199, w0-99 = U200-299The last item on lines below, preceeded by a semicolon (;), is the schematic page number on which the test point, connector or signal information

originates.

	origin	ates.					
3)	Line w	rith no page r	number was a	continuation	of the	previous line.	
	4,	400440	.04	#TP153	.1i	NIA.01'	;27
#TP1	.1i	12BitCarry	;04 ;07	#TP154	. 1 i	NIA.02'	;27
#TP10	.1i	IB.2	;20	#TP155	. 1 i	NIA.03'	;27
#TP100	.1i	prB.1	;20	#TP156	. 1 i	NIA.04'	;27
#TP101	.1i	prB.2	;20	#TP157	. 1 i	NIA.05'	;27
#TP102	.1i	prB.3 paS.0	;20	#TP158	. 1 i	NIA.06'	; 27
#TP103	.1i .1i	paS.1	;20	#TP159	.1i	NIA.07'	;27
#TP104	.11	paS.2	;20	#TP16	.1i	IBFront←	; 07
#TP105	.1i	paF.0	;20	#TP160	. 1 i	NIA.08'	;27
#TP106 #TP107	.1i	paF.1	;20	#TP161	. 1 i	NIA.09'	;27
#TP107 #TP108	.1 i	paF.2	;20	#TP162	. 1 i	NIA.10'	;27
#TP108	.1i	paD.0	;20	#TP163	.1i	NIA.11'	;27
#TP11	.1 i	IB.3	;07	#TP17	.1i	GoodIBDispc2	;07
#TP110	.1i	paD.1	;20	#TP172	.1i	IBPtr.O	;07
#TP111	.1i	pEP	;20	#TP173	.1i	IBPtr.1	;07
#TP112	. 1 i	pCIN-SE-wrSU	•	#TP174	.1i	ExitKernel'	;11
#TP113	.1i	pEnableSU	;20	#TP175	.1i	EnterKernel'	;11
#TP114	.1i	pmem	;20	#TP176	.1i	ClrIntErr'	;11
#TP115	. 1 i	pfS.0	; 20	#TP177	.1i	IBDisp'	;11
#TP116	.1i	pfS.1	;20	#TP178	.1i	MesaIntRq'	;11
#TP117	.îi	pfS.2	;20	#TP179	.1i	IBPtr <b>←1'</b>	;11
#TP118	. 1 i	pfS.3	,20	#TP18	.1i	RefillIntc2	;07
#TP119	, 1 i	pfY.0	;20	#TP180	, 1 i	IBPtr←0'	;11
#TP12	.1 i	IB.4	; 07	#TP181	.1i	PopZ'	; 11
#TP120	.1i	pfY.1	;20	#TP182	,1i	←ib'	;11
#TP121	.1i	pfY.2	;20	#TP19	.1i	SelectIBO'	; 07
#TP122	.1i	pfY.3	;20	#TP192	.1i	pPC16'	; 17
#TP123	. 1 i	INIA.00	;20	#TP199	.1i	EmuMemErr	; 17
#TP124	.1i	INIA.01	;20	#TP2	.1i	PageCross	; 04
#TP125	.1i	INIA.02	;20	#TP20	.1i	pIBPtr.O	; 07
#TP126	.1i	INIA.03	;20	#TP200	.1i	*23.4	;24
#TP127	.1i	pfX.O	;21	#TP201	.1i	*23.5	;24
#TP128	.1i	pfX.1	;21	#TP202	. 1 i	*23.1	;24
#TP129	.1i	pfX.2	;21	#TP203	.1i	*23.2	;24
#TP13	.1i	IB.5	;07	#TP204	.1i	*23.3	;24
#TP130	.1i	pfX.3	;21	#TP205	.1i	*23.6	;24
#TP131	. 1 i	INIA.04	;21	#TP21	.1i	pIBPtr.1	; 07
#TP132	.1i	INIA.05	;21	#TP22	, 1 i	SelectIB1'	;07
#TP133	.1i	INIA.06	;21	#TP23	.1i	MAR←'	;10
#TP134	.1i	INIA.07	;21	#TP24	, 1 i	DispBr.0'	;13
#TP135	.1i	pfZ.O	;21	#TP25	.1i	DispBr.1'	;13
#TP136	.1i	pfZ.1	;21	#TP26	. 1 i	DispBr.2'	;13
#TP137	.1i	pfZ.2	;21	#TP27	.1i	DispBr.3A'	;13
#TP138	.1i	pfZ.3	;21	#TP28	.1i	DispBr.3B'	;13
#TP139	.1 i	INIA.08	;21	#TP29	.1i	pNIA.00'	;14
#TP14	.1i	IB.6	; 07	#TP3	.1i	R.00	;04
#TP140	.1i	INIA.09	;21	#TP30	.1i	pNIA.01'	; 14
#TP141	.1i	INIA.10	;21	#TP31	.1i	pNIA.02'	;14
#TP142	.1i	INIA.11	;21	#TP32	.1i	pNIA.03'	;14
#TP15	.1i	IB.7	; 07	#TP33	.1i	pNIA.04'	;14
#TP152	.1i	NIA.00'	; 27	#TP34	.1i	pNIA.05'	; 14

ſ	1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
	XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	42	OF	Α

		N.T.A. 00.4	. 4.4	#TP91	.1i	pKR'	;17
#TP35	.1 i	pNIA.06'	;14	#TP91 #TP93	.1i	KernReq'	;17
#TP36	.1i	pNIA.07'	;14				;17
#TP37	.1i	pTC.0	;14	#TP94	.1i	pc16'	
#TP38	.1ì	pNIA.08'	;14	#TP95	.1i	prA.O	;20
#TP39	.1i	pTC.1	; 14	#TP96	.1i	prA.1	;20
#TP4	.1i	R.15	; 04	#TP9 <b>7</b>	.1i	prA.2	;20
#TP40	.1i	pNIA.09'	;14	#TP98	.1i	prA.3	;20
#TP41	.1i	pTC.2	;14	#TP99	.1i	prB.O	;20
#TP42	. 1 i	pNIA.10'	; 14				
#TP43	. 1 i	pTC.3	, 14	E002		Cycle1'	; 18
#TP44	.1i	pNIA.11'	; 14	E003		Cycle2'	;18
#TP45	.1i	TPC.00'	; 15	E004		Cycle3'	;18
#TP46	.1i	TPC.01'	; 15	E009		ppC1k	;18
#TP47	.1i	TPC.02'	;15	E010		ĠND	;42
#TP48	.1i	TPC.03'	;15	E011		A11owMDR←	;10
	.1i	TPC.04'	;15	E015		MapRef	; 12
#TP49	.1i	Q.00	;04	E016		Refresh	;12
#TP5		TPC.05'	;15	E017		Wait	;18
#TP50	.1i		;15	E020		GND	;42
#TP51	.1i	TPC.06'	;15	E021		IOPOData←'	;11
#TP52	.1i	TPC.07'		E022		KOData←'	;11
#TP53	.1i	TPC.08'	;15	E023		EOData←'	;11
#TP54	.1i	TPC.09'	;15			DCtlFifo←'	;11
#TP55	.1i	TPC.10'	;15	E024		DBorder←'	;11
#TP56	.1i	TPC.11'	;15	E025		←TStatus'	;11
#TP57	.1i	pLink.0'	;15	E026		KCmd←'	;11
#TP58	.1i	pLink.1'	;15	E027			
#TP59	.1i	pLink.2'	;15	E028	-	POData←'	;11
#TP6	.1i	Q.15	;04	E030		GND	;42
#TP60	.1i	pLink.3′	;15	E031		←EIData'	;11
#TP61	.1i	TCY.0	;15	E032		←KIData'	;11
#TP62	.1i	TCY.1	;15	E0 <b>33</b>		←KTest'	;11
#TP63	. 1 i	TCY.2	; 15	E034		←IOPIData'	;11
#TP64	.1i	TCY.3	;15	E035		EStrobe'	;11
#TP65	.1i	Ct.O	;16	E037		CSParErr	;24
#TP66	.1i	Ct.1	;16	E039		YIODisp.0	;13
#TP67	.1i	Ct.2	;16	E040		GND	;42
#TP68	.1i	Ct=Emu	;16	E041		X.00	;03
#TP69	.1i	Pt=Emu	;16	E042		X.02	;03
#TP7	.1i	CIN-SE	; 04	E043		X.04	;03
#TP70	.1i	Nt.O	, 16	E044		X.06	;03
#TP71	.1i	Nt.1	;16	E045		X.08	;03
#TP72	.1i	Nt.2	;16	E046		X.10	;03
#TP73	.1i	Nt=Emu	;16	E047		X.12	;03
#TP74	. 1 i	Swc2	; 16	E048		X.14	;03
#TP75	.1i	Swc2'	;16	E049		Y.00	;03
#TP76	.1i	*23.7	; 24	E050		BackVCC	;42
#TP77	.1i	*23.8	;24	E051		BackVCC	;42
		MesaInt	;24	E052		Y.02	;03
#TP78	.1i		;17	E053		Y.04	;03
#TP79	.1i	EKTrapc2'		E054		Y.06	;03
#TP8	.1i	IB.O	;07			Y.08	;03
#TP80	.1i	EKTrapc2	;17	E055 E056		Y.10	;03
#TP81	.1i	EKErr.0'	;17				;03
#TP82	.1i	EKErr.1'	;17	E057		Y.12	
#TP83	.1i	pEKT	;17	E058		Y.14	;03
#TP84	.1i	pEKT	;17	E059		YH.O	;06
#TP85	.1i	pEKO'	; 17	E060		GND	;42
#TP86	.1i	pEK1'	; 17	E061		YH.2	;06
#TP87	.1i	pSE	;17	E062		YH.4	;06
#TP9	.1i	IB.1	;07	E063		YH.6	;06

XEROX TITLE COLEMATIC OPE-ED DWG NO. 156P12560 SHEET REV. A4 SHEET 43 OF A							
XEROX TITLE OUT TO OUT		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS		DWG NO.	156	P12560	
	VEDOV		SIZE		100.	12000	 REV.
	AERUX		Α4	SHEET	43	OF	Α

			•			
r004	D+ 0	;16	E 155		Y.09	;03
E064	Pt.0	;16	E156		Y.11	;03
E065	Pt.2	, 10	E157		Y.13	;03
E066	Disp-Proc'	; 18			Y. 15	;03
E070	GND	; 42	E158			
E077	IOPAddr.14	;19	E159		YH.1	;06
E080	GND	; 42	E160		GND	; 42
E081	pCSWE.a'	; 19	E161		YH.3	;06
	pCSWE.c'	;19	E162		YH.5	;06
E082		;19	E163		YH.7	;06
E083	pCSWE.e'	;16	E164		Pt.1	;16
E084	IOPReq'		E166		MemErrc3	;17
E085	DPReq'	;16			GND	; 42
E08 <b>6</b>	EReq'	;16	E170			
E08 <b>7</b>	KReq'	; 16	E176		IOPAddr.13	;19
E08 <b>8</b>	RefReq'	;16	E177		IOPAddr.15	;19
E089	EORound	; 16	E180		GND	; 42
E090	GND	; 42	E181		pCSWE.b'	; 19
E091	WrTPCHigh'	;19	E182		pCSWE.d'	;19
	IOPData.0	;19	E183		pCSWE.f'	;19
E092		;19	E185		C1rDPReq'	;11
E093	IOPData.2		E186		C1rRefReg'	;11
E094	IOPData.4	;19				;11
E095	IOPData.6	; 19	E187		C1rKFlags'	
E096	SwTAddr	;19	E188		ReadCSEn'	;25
E102	Click.O	;16	E189		IOPWait	;18
E103	Click.1	;16	E190		GND	; 42
E104	Click.2	;16	E191		WrTPCLow	;18
E110	GND	; 42	E192		IOPData.1	;19
		;10	E193		IOPData.3	;19
E113	mem (MStatus!	;11	E194		IOPData.5	;19
E114	←MStatus'		E195		IOPData.7	;19
E115	MCt1←'	;11			SwTAddr'	;19
E117	IOPReset'	;26	E196		SWINGGI	, 19
E120	GND	; 42			aun	. 0.0
E121	IOPCt1←'	;11	J1	.01	GND	;38
E122	KCt1←'	;11	J1	.02	GND	;38
E123	EICt1←'	;11	J1	.03	GND	; 38
E124	DCt1←'	;11	J1	.04	FPCLK	; 38
E126	EOCt1←'	;11	J1	.05	ExtPwr	;38
	←TIData'	;11	J1	.06	ExtPwr	;38
E127			J1	.07	FPI.0	;38
E128	PCt1←'	;11		.08	FPI.1	;38
E130	GND	; 42	J1		FPI.2	;38
E131	←EIStatus'	;11	J1	.09		
E132	←KStatus'	;11	J1	.10	FPI.3	;38
E133	KStrobe'	;11	J1	.11	IntExternal'	;38
E134	←IOPStatu <b>s'</b>	;11	J1	. 12	fY.O	;38
E139	YIODisp.1	; 13	J1	.13	fY.1	;38
	GND	; 42	J1	. 14	fY.2	;38
E140		;03	J1	.15	fY.3	;38
E141	X.01		J1	.16	SUA.4	;38
E142	X.03	;03				;38
E143	X.05	;03	J1	. 17	SUA.5	
E144	X.07	;03	J1	.18	SUA.6	;38
E145	X.09	; 03	J1	.19	SUA.7	;38
E146	X.11	;03	J1	.20	GND	;38
E147	X.13	;03	J1	.21	Bx.0	;38
	X.15	;03	J1	.22	Bx.1	;38
E148				.23	Bx.2	;38
E149	Y.01	;03	J1			;38
E150	BackVCC	; 42	J1	.24	Bx.3	
E151	BackVCC	; 42	J1	.25	Bx.4	;38
E152	Y.03	;03	J1	.26	Bx.5	;38
E153	Y.05	;03	J1	.27	Bx.6	;38
E154	Y.07	;03	J1	.28	Bx.7	;38
L107	,	,	- <del>-</del>			

-		PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	12560	SHEET REV.
4.0	XEROX	TITLE SCHEMATIC. CPE-FP	A4	SHEET	44	OF	Α

```
*04.15: v68.12o, v83.13i
                                                                               ;05
                                     ;38
           .29
                 Se1FP'
J1
           .30
                 Bx.8
                                     ;38
J1
                                                  *04.16: v68.10o, v83.11i
           .31
                 Bx.9
                                     ;38
J1
           .32
                 Bx.10
                                     ;38
J1
                                                  *04.17: v41.10o, v83.8i
                                                                               ;05
                                     ;38
                 Bx.11
           .33
J1
                                     ;38
                 Bx.12
J1
           .34
                                                  *04.18: v41.120, v83.6i
                                                                               ;05
                                     ;38
                 Bx.13
J1
           .35
                                     ;38
                 Bx.14
J1
           .36
                                                  *04.19: v41.14o, v83.4i
                                                                               ;05
                                     ;38
                 Bx.15
J1
           .37
                                                          v58.4o, u89.4i;05
                                                  *04.1:
           .01
                 PIO.0
                                     ;36
J2
           .02
                 PIO.1
                                     :36
J2
                                                  *04.20: v41.16o, v83.2i
                                                                               :05
           .03
                                     ;36
J2
                 PI0.2
           .04
                                     ;36
                 PI0.3
J2
                                                  *04.2:
                                                           v58.7o, u89.5i;05
           .05
                 PIO.4
                                     ;36
J2
                 PI0.5
                                     ;36
J2
           .06
                                                                               ;05
                                                  *04.3:
                                                           v58.9o, u89.12i
                 PIO.6
                                     ;36
J2
           .07
           .08
                 PI0.7
                                     ;36
J2
                                                  *04.4:
                                                           v58.12o, u89.13i
                                                                               :05
                                     :36
J2
           .09
                 PI.0
                                     ;36
           .10
                 PI.1
J2
                                     ;36
                                                  *04.5:
                                                           v42.16o, v84.2i
                                                                               ;05
           .11
                 PI.2
J2
                                     ;36
           .12
                 PI.3
J2
                                                           v42.14o, v84.4i
                                                  *04.6:
                                                                               :05
           .13
                 PI.4
                                     ;36
J2
                                     ;36
J2
           .14
                 ExtPwr
                                                           v42.12o, v84.6i
                                                                               ;05
                                                  *04.7:
                 ExtPwr
                                     ;36
J2
           . 15
                                     ;36
J2
           .16
                 Cycle3Pin'
                                                  *04.8:
                                                           v42.10o, v84.8i
                                                                               ;05
                                     ;36
J2
           .17
                 GND
                                     ;36
J2
           .18
                 GND
                                                  *04.9:
                                                           v69.10o, v84.11i
                                     :36
J2
           . 19
                 GND
                                     ;36
J2
           .20
                 PO.0
                                                           v78.2o, v65.3i, v37.2o ;07
                                                  *06.1:
                                     ;36
           .21
                 PO.0'
J2
           .22
                 PO.1
                                     :36
J2
                                                           v78.50, v65.4i, v37.50 ;07
                                                  *06.2:
J2
            .23
                 PO.1'
                                     ;36
                                     ;36
J2
            .24
                 PO.2
                                                           v78.60, v65.7i, v37.60 ;07
                                                  *06.3:
                                     ;36
            .25
                 PO.2'
J2
                 P0.3
                                     ;36
            .26
J2
                                                  *06.4:
                                                           v78.90, v65.8i, v37.90 ;07
                                     ;36
                 PO.3'
J2
            .27
                                     ;36
                 PO.4
J2
            .28
                                                  *06.5:
                                                           v78.120, v65.13i, v37.120 ;07
                 PO.4'
                                     ;36
J2
            .29
                                     ;36
J2
                 PO.5
            .30
                                                           v78.150, v65.14i, v37.150
                                     ;36
                                                  *06.6:
J2
            .31
                 PO.5'
            .32
                                     ;36
J2
                 PO.6
                                                           v78.16o, v65.17i, v37.16o ;07
                                                  *06.7:
            .33
                 P0.6'
                                     ;36
J2
            .34
                 PortOutput'
                                     ;36
J2
                                                           v78.19o, v65.18i, v37.19o
                                                                                        ;07
                                     ;36
                                                  *06.8:
            .35
                 PO.7'
J2
                 PI.5
                                     ;36
            .36
J2
                                                           v97.13o, v85.19i ;16
                                     ;36
                                                  *15.1:
            .37
                 GND
J2
                                                           u35.11o, v22.5i
                                                  *17.1:
                                                                               ;18
*04.10: v69.12o, v84.13i
                                                           u31.11o, v05.9i
                                                  *17.2:
                                                                               ;18
*04.11: v69.14o, v84.15i
                                                  *17.3:
                                                           u35.6o, v97.9i;18
*04.12: v69.16o, v84.17i
                                                  *23.10: u22.50, u28.3i;24
*04.13: v68.16o, v83.17i
                                                  *23.11: u23.50, u28.4i;24
*04.14: v68.14o, v83.15i ;05
                                                  *23.12: u27.50, u28.14i
                                                                               ;24
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1	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS	DWG SIZE	DWG NO.	156P	SHEET REV.	
XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	45	OF	Α

```
*35.7: v40.15o, u19.15i ;36
*23.13: u24.50, u28.7i;24
                                                     v40.12o, u19.17i ;36
                                              *35.8:
*23.14: u25.50, u28.8i;24
                                                            u81.29i ;03
                                             12BitCarry:
                                                                              :04
                                             12BitCarry:
                                                            u90.9o, #TP1.1i
*23.15: u26.50, u28.13i
                          ;24
                                             12BitGen': u80.320 ;03
*23.16: u85.14o, u35.9i
                          ;24
                                              12BitGen': u90.14i ;04
       #TP202.1i, u28.6o, u29.1i ;24
                                              12BitProp':
                                                            u80.350 ;03
       #TP203.1i, u28.9o, u29.2i ;24
                                              12BitProp':
                                                            u90.15i ;04
*23.2:
                                              18.1:
                                                      v51.2i, v52.2i, v53.2i
                                                                              :19
*23.3:
       #TP204.1i, u28.12o, u29.3i;24
                                              18.1:
                                                      v54.2i, v55.2i, v72.3i
                                                      v70.18o, v50.2i
*23.4:
       #TP200.1i, u28.2o, u29.16i;24
                                              18.1:
                                                      v51.4i, v52.4i, v53.4i
*23.5:
       #TP201.1i, u28.5o, u29.17i;24
                                              18.2:
                                                      v54.4i, v55.4i, v72.4i
                                              18.2:
                                                      v73.2i, v70.16o, v50.4i
        #TP20.5.1i, u28.15o, u29.4i;24
                                              18.2:
*23.6:
                                                      v51.6i, v52.6i, v53.6i ;19
                                              18.3:
        #TP76.1i, u29.11o, u64.14i;24
*23.7:
                                                      v54.6i, v55.6i, v72.7i
                                              18.3:
                                                      v73.4i, v70.14o, v50.6i
        #TP77.1i, u35.8o, u64.17i ;24
*23.8:
                                              18.3:
                                                      v51.8i, v52.8i, v53.8i ;19
*23.9:
        u29.13o, u35.10i ;24
                                              18.4:
                                                      v54.8i, v55.8i, v72.8i
                                              18.4:
                                                      v73.6i, v70.12o, v50.8i
       u04.50, u13.6i;26
                                              18.4:
*25.1:
                          ;26
                                                      v51.17i, v52.17i, v53.17i
*25.2:
       u04.6o, u13.11i
                                              18.5:
                                              18.5:
                                                      v54.17i, v55.17i, v72.13i
*25.3:
        u04.7o, u13.14i
                          ;26
                                              18.5:
                                                      v73.8i, v70.3o, v50.17i
                                                      v51.15i, v52.15i, v53.15i
                                                                                  ;19
                                              18.6:
*25.4:
        u04.4o, u13.3i ;26
                                                      v54.15i, v55.15i, v72.14i
                                              18.6:
                          ;30
                                              18.6:
                                                      v73.17i, v70.5o, v50.15i
*29.1:
        u69.30, v56.11i
                                                                                 ;19
*29.2:
        v01.31o, u64.18i
                                              18.7:
                                                      v51.13i, v52.13i, v53.13i
                                                      v54.13i, v55.13i, v72.17i
                                              18.7:
*29.3:
        v01.15o, v33.13i
                          :30
                                              18.7:
                                                      v73.15i, v70.7o, v50.13i
                          ;30
                                              18.8:
                                                      v51.11i, v52.11i, v53.11i
*29.4:
        u69.8o, v34.11i
                                              18.8:
                                                      v54.11i, v55.11i, v72.18i
        u87.8o, u69.1i;30
                                              18.8:
                                                      v73.13i, v70.9o, v50.11i
*29.5:
                                              4BitCarry: v08.29i
                                                                  ;03
*30.1:
        u69.11o, u14.10i ;31
                                              4BitCarry: u90.12o
                                                                  :04
        v40.2o, u19.2i;36
                                              4BitCarry: v07.12i
*35.1:
                                                                  ;13
                                              4BitGen':
*35.2:
        v40.5o, u19.4i;36
                                                         v09.32o
                                                                  :03
                                              4BitGen':
                                                         u90.3i
                                                                  ;04
*35.3:
       v40.6o, u19.6i;36
                                              4BitProp': v09.350
                                                                  ;03
       v40.9o, u19.8i ;36
                                              4BitProp': u90.4i
                                                                  ;04
*35.4:
                                              8BitCarry: u80.29i
*35.5:
       v40.19o, u19.11i ;36
                                                                  ;03
                                              8BitCarry: u50.2i, u90.11o
                                                                            ;04
*35.6: v40.16o, u19.13i
                                              8BitCarry: v07.15i
                          ;36
                                                                 ;13
```

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AlwaysClk-b:
                                                                u67.11i
                                                                          ;10
            v08.320
                      ;03
8BitGen':
                                                 AlwaysClk-b:
                                                                v21.40
                                                                          :18
8BitGen':
           u90.1i
                      ;04
                                                 AlwaysClk-b:
                                                                u13.9i
                                                                          ;26
                                                 AlwaysClk-b:
                                                                u47.9i
                                                                          ;26
8BitProp': v08.350
                      ;03
                                                 AlwaysClk-b:
                                                                u05.2i
                                                                          ;28
8BitProp': u90.2i
                      ;04
                                                 AlwaysClk-b:
                                                                u28.11i
                                                                          ;29
aD.0':
        u63.15i, u87.2o, u62.1i;04
                                                 AlwaysClk-c:
                                                                v16.11i
                                                                          ;10
                  ;03
                                                 AlwaysClk-c:
                                                                v17.11i
                                                                          ;10
aD.0:
        u81.7i
                                                 AlwaysClk-c:
                                                                v76.11i
                                                                          ;15
         u80.7i
                  ;03
aD.0:
                  ;03
                                                                v62.11i
                                                                          ;15
        v09.7i
                                                 AlwaysClk-c:
aD.0:
                                                                v21.60
                  ;03
                                                 AlwaysClk-c:
                                                                          ;18
aD.0:
         v08.7i
                                                                u82.9i,
                                                                         v31.9i ;26
                                                 AlwaysClk-c:
         u87.1i, u62.5i, u63.1i ;04
aD.0:
                                                 AlwaysClk-c:
                                                                v94.11i
                                                                          ;29
aD.0:
         v16.120
                  ;10
                                                                v95.9i
                                                                          ;38
                                                 AlwaysClk-c:
aD.1:
         u81.5i
                  :03
                                                 aSh.0:
                                                          u81.14i
                                                                    ;03
aD.1:
                  :03
         u80.5i
                                                                    ;03
                                                 aSh.0:
                                                          u80.14i
aD.1:
         v09.5i
                  ;03
                                                 aSh.0:
                                                          v17.19o
                                                                    ;10
         v08.5i
                  :03
aD.1:
         u63.2i
                  ;04
aD.1:
                                                                    ;03
         v16.150
                  ;10
                                                 aSh.1:
                                                          u81.13i
aD.1:
                                                                    ;03
                                                 aSh.1:
                                                          u80.13i
        u81.27i
                  :03
                                                 aSh.1:
                                                          u99.20
                                                                    ;10
aF.0:
                  ;03
aF.0:
         u80.27i
                                                                    :03
                  ;03
                                                 aSh.2:
                                                          u81.12i
aF.0:
         v09.27i
                  ;03
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CSA.02':	u60.18i	;21		CSA.04':	v12.1i	;20
CSA.02':	u41.18i	;21		CSA.04':	v14.1i	;20
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CSA.02':	u76.18i	;22		CSA.04':	v13.1i	;20
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CSA.04':	u58.1i	;21		CSA.06':		;20
CSA.04':	u60.1i	;21		CSA.06':	v12.3i	;20
CSA.04':	u41.1i	;21		CSA.06':	v14.3i v29.3i	;20
CSA.04':	u74.1i	;22		CSA.06':	v29.3i	;20
	1102 1i	.22		CSA.06':	v26.3i	;20
CSA.04': CSA.04':	04 13	;22		CSA.06':	v11.3i	;20
		, , , ,				;20
CSA.04':		;22				
CSA.04':	u78.1i	;22		CSA.06': CSA.06':	v28.3i	;20
CSA.04':	u96.1i	;22 ;22		CSA.06';	v30.3i	;20
CSA.04':	u93.1i	;22		CSA.06':	v15.31	;20
CSA.04': CSA.04':	u75.1i	;22		CSA.06':	u36.3i	;21
CSA.04':	u77 1i	.22		CSA.06':	u55.3i	;21
		;22		CSA.06':	u55.3i u57.3i u38.3i	;21
CSA.04':	u90.11	, 22		CSA.06':	u38.3i	;21
CSA.04': CSA.04':	u9/.11	; 22		CCA OGI.		;21
CSA.04':	u/9.11	; 22		CSA.06':		
CSA.04':				CSA.06':	u59.3i	;21
CSA.04':	u05.16o	;28		CSA.06':	u56.31	;21
				<b>ተ</b> ያል በልነ •	u37.3i	;21
CSA.05':	v25 2i	:20		CSA.06':	u56.3i u37.3i u39.3i	;21
CSA.05':	v10 2i	.20		CSA.06':	u58.3i	;21
CSA.05':	V10.21	;20		CSA.06':		;21
				CSA.06':		
CSA.05':	V12.21	;20		COA, OC.	u41.3i u74.3i	, 2 1
CSA.05':	v14.2i v29.2i v26.2i	;20		CSA.06':	u/4.31	
CSA.05':	v29.2i	;20		CSA.06':		;22
CSA.05':	v26.2i	;20		CSA.06':	u94.3i	;22
CSA.05':	v11.2i	;20		CSA.06':	u76.3i	;22
		;20		CSA.06':	น7ี่ วิจี	;22
	v28.2i	;20		CSA.06':	u96.3i	;22
COM. OF L.	v20.21	.20		CSA.06':	u93.3i	;22
CSA.05': CSA.05':	V3U.Z1	,20		CSA.06':	u75.3i	.22
CSA.Ub':	V15.21	;20		COM 001.	u/J.J1	
CSA.05':	u36.21	;21		CSA.06':	u77.3i	
CSA.05':	u55.2i	;21		CSA.06':	u95,3i	
CSA.05':	u57.2i	;21		CSA.06':		;22
CSA.05':	u38.2i	;21		CSA.06':	u79.3i	;22
CSA.05':	u40.2i	;21		CSA.06':	u98.14o	;27
CSA.05':	u59.2i	;21		CSA.06':	u05.18o	;28
		;21		00///00		. ,
CSA.05':	u56.2i			CSA.07':	v25.4i	;20
CSA.05':	u37.2i	;21				
CSA.05':	u39.2i	;21		CSA.07':	v10.4i	;20
CSA.05':	u58.2i	;21		CSA.07':	v27.4i	;20
CSA.05':	u60.2i	;21		CSA.07':	v12.4i	;20
CSA.05':	u41.2i	;21		CSA.07':	v14.4i	;20
CSA.05':	u74.2i	;22		CSA.07':	v29.4i	;20
CSA.05':	u92.2i	;22		CSA.07':	v26.4i	;20
				CSA.07':	v11.4i	;20
CSA.05':	u94.2i	;22		CSA.07:	v13.4i	;20
CSA.05':	u76.2i	;22	•			
CSA.05':	u78.2i	;22		CSA.07':	v28.4i	;20
CSA.05':	u96.2i	;22		CSA.07':	v30.4i	;20
CSA.05':	u93.2i	;22		CSA.07':	v15.4i	;20
CSA.05':	u75.2i	;22		CSA.07':	u36.4i	;21
CSA.05':	u77.2i	;22		CSA.07':	u55.4i	;21
	411.41	,		• • • • • •	<del>-</del> -	•

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	XEROX	TITLE SCHEMATIC, CPE-FP	A4	SHEET	51	OF	Α

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CSA.07':	u57.4i	;21			CSA.08':	u97.5i	;22	
CSA.07':		;21			CSA.08':	u79.5i	;22	
CSA.07':	u40.4i	;21			CSA.08':	u98.12o	;27	
CSA.07':	u59.4i	;21			CSA.08':	u05.20o	;28	
CSA.07':		;21						
CSA.07':	u37.4i	;21			CSA.09':	v25.6i	;20	
CSA.07':		;21			CSA.09':	v10.6i	;20	
CSA.07:		;21			CSA.09':	v27.6i	;20	
CSA.07:		;21			CSA.09':	v12.6i	;20	
		;21			CSA.09':	v14.6i	;20	
CSA.07':					CSA.09':	v29.6i	;20	
CSA.07':	u74.4i	;22			CSA.09':	v26.6i	;20	
CSA.07':		;22			CSA.09':	v11.6i	;20	
CSA.07':		;22				v11.61	;20	
CSA.07':		;22			CSA.09':		;20	
CSA.07':	u78.4i	;22			CSA.09':	v28.6i		
CSA.07':	u96.4i	;22			CSA.09':	v30.6i	;20	
CSA.07':		;22	•		CSA.09':	v15.6i	;20	
CSA.07':	u75.4i	;22			CSA.09':	u36.6i	;21	
CSA.07':	u77.4i	;22			CSA.09':	u55.6i	;21	•
CSA.07':	u95.4i	;22			CSA.09':	u57.6i	;21	
CSA.07':	u97.4i	;22			CSA.09':	u38.6i	;21	
CSA.07':	u79.4i	;22			CSA.09':	u40.6i	;21	
CSA.07':		;27			CSA.09':	u59.6i	;21	
CSA.07':	u05.19o	;28			CSA.09':	u56.6i	;21	
CO/1. 07 1	400.100	,			CSA.09':	u37.6i	;21	
CSA.08':	v25.5i	;20			CSA.09':	u39.6i	;21	
CSA.08':	v10.5i	;20			CSA.09':	u58.6i	;21	
	v10.51 v27.5i	;20			CSA.09':	u60.6i	;21	
CSA.08':		;20			CSA.09':	u41.6i	;21	
CSA.08':	v12.5i				CSA.09':	u74.6i	;22	
CSA.08':	v14.5i	;20			CSA.09':	u92.6i	;22	
CSA.08':	v29.5i	;20				u94.6i	;22	
CSA.08':	v26.5i	;20			CSA.09':	u76.6i	;22	
CSA.08':	v11.5 i	;20	•		CSA.09':			
CSA.08':	v13.5i	;20			CSA.09':	u78.6i	;22	
CSA.08':	v28.5i	;20			CSA.09':	u96.6i	;22	
CSA.08':	v30.5i	;20			CSA.09':	u93.6i	;22	
CSA.08':	v15.5i	;20			CSA.09':	u75.6i	;22	
CSA.08':	u36.5i	;21			CSA.09':	u77.6i	;22	
CSA.08':	u55.5i	;21			CSA.09':		;22	
CSA.08':	u57.5i	;21			CSA.09':	u97.6i	;22	
CSA.08':	u38.5i	;21			CSA.09':	u79.6i	;22	
CSA.08':	u40.5i	;21			CSA.09':	u98.11o	;27	
CSA.08':	u59.5i	;21			CSA.09':	u05.9i	;28	
CSA.08':	u56.5i	;21						
CSA.08':	u37.5i	;21			CSA.10':	v25.7i	;20	
CSA.08':	u39.5i	;21			CSA.10':	v10.7i	;20	
CSA.08':	u58.5i	;21			CSA.10':	v27.7i	;20	
CSA.08':	u60.5i	;21			CSA.10':	v12.7i	;20	
		;21			CSA.10':	v14.7i	;20	
CSA.08':	u41.5i				CSA.10':	v29.7i	;20	
CSA.08':	u74.5i	;22			CSA.10':	v26.7i	;20	
CSA.08':	u92.5i	;22			CSA.10':	v11.7i	;20	
CSA.08':	u94.5i	;22						
CSA.08':	u76.5i	;22		-	CSA.10':	v13.7i	;20	
CSA.08':	u78.5i	;22			CSA.10':	v28.7i	;20	
CSA.08':	u96.5i	;22			CSA.10':	v30.7i	;20	
CSA.08':	u9 <b>3.5i</b>	;22			CSA.10':	v15.7i	;20	
CSA.08':	u75.5i	;22			CSA.10':	u36.7i	;21	
CSA.08':	u77.5i	;22			CSA.10':	u55.7i	;21	
CSA.08':	u95.5i	;22			CSA.10':	u57.7i	;21	
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                                                                        ;22
                                                  CSA.11':
CSA.10':
            u38.7i
                      ;21
                                                  CSA.11':
                                                                        ;27
                                                              u98.90
            u40.7i
                      ;21
CSA.10':
                                                                        ;28
                                                  CSA.11':
                                                              u05.7i
                      ;21
CSA.10':
            u59.7i
CSA.10':
                      ;21
            u56.7i
                                                  CSBank.0': v10.9i
                                                                        ;20
CSA.10':
            u37.7i
                      ;21
                                                  CSBank.0': v25.9i
                                                                        ;20
CSA.10':
            u39.7i
                      ;21
                                                                        ;20
                                                  CSBank.0': v26.9i
CSA.10':
            u58.7i
                      ;21
                                                  CSBank.0': v27.9i
                                                                        ;20
                      ;21
CSA.10':
            u60.7i
                                                  CSBank.0': v28.9i
                                                                        ;20
CSA.10':
            u41.7i
                      ;21
                                                  CSBank.0': v14.9i
                                                                        ;20
                      ;22
CSA.10':
            u74.7i
                                                  CSBank.0': v29.9i
                                                                        ;20
CSA.10':
            u92.7i
                      ;22
                                                  CSBank.0': v30.9i
                                                                        ;20
CSA.10':
            u94.7i
                      ;22
                                                                        ;20
                                                  CSBank.0': v15.9i
CSA.10':
                      ;22
            u76.7i
                                                  CSBank.0': v13.9i
                                                                        ;20
CSA.10':
                      ;22
            u78.7i
                                                  CSBank.0': v12.9i
                                                                        ;20
CSA.10':
                      ;22
            u96.7i
                                                  CSBank.0': v11.9i
                                                                        ;20
CSA.10':
                      ;22
            u93.7i
CSA.10':
                      ;22
                                                  CSBank.0': u66.160
                                                                        ;27
            u75.7i
CSA.10':
            u77.7i
                      ;22
                                                                        ;21
                                                  CSBank.1': u55.9i
CSA.10':
            u95.7i
                      ;22
                                                  CSBank.1': u56.9i
                                                                        ;21
CSA.10':
            u97.7i
                      ;22
                                                  CSBank.1': u57.9i
                                                                        ;21
CSA.10':
            u79.7i
                      ;22
                                                  CSBank.1': u58.9i
                                                                        ;21
CSA.10':
            u98.10o
                      ;27
                                                  CSBank.1': u59.9i
                                                                        ;21
CSA.10':
            u05.8i
                      ;28
                                                  CSBank.1': u60.9i
                                                                        ;21
                                                  CSBank.1': u41.9i
                      ;20
                                                                        ;21
CSA.11':
            v25.8i
                                                  CSBank.1': u40.9i
CSA.11':
            v10.8i
                      ;20
                                                                        ;21
                                                  CSBank.1': u39.9i
                                                                        ;21
CSA.11':
            v27.8i
                      ;20
                                                  CSBank.1': u38.9i
            v12.8i
                                                                        ;21
                      ;20
CSA.11':
                                                  CSBank.1': u37.9i
CSBank.1': u36.9i
                      ;20
                                                                        ;21
CSA.11':
            v14.8i
                                                                         ;21
CSA.11':
            v29.8i
                      ;20
                                                  CSBank.1': u66.150
                                                                        ;27
CSA.11':
            v26.8i
                      ;20
CSA.11':
            v11.8i
                      ;20
                                                                        ;22
                                                  CSBank.2': u92.9i
CSA.11':
            v13.8i
                      ;20
                                                  CSBank.2': u93.9i
                                                                        ;22
CSA.11':
            v28.8i
                      ;20
                                                                        ;22
                                                  CSBank.2': u94.9i
CSA.11':
            v30.8i
                      ;20
                                                  CSBank.2': u95.9i
CSA.11':
                                                                        ;22
            v15.8i
                      ;20
                                                  CSBank.2': u96.9i
                                                                        ;22
CSA.11':
            u36.8i
                      ;21
                                                  CSBank.2': u97.9i
CSA.11':
            u55.8i
                      ;21
                                                                        ;22
                                                  CSBank.2': u79.9i
CSA.11':
                                                                        ;22
            u57.8i
                      ;21
                                                  CSBank.2': u78.9i
                                                                        ;22
CSA.11':
            u38.8i
                      ;21
                                                  CSBank.2': u77.9i
CSA.11':
            u40.8i
                      ;21
                                                                        ;22
                                                  CSBank.2': u76.9i
CSA.11':
                                                                        ;22
            u59.8i
                      ;21
                                                  CSBank.2': u75.9i
CSA.11':
                                                                         ;22
            u56.8i
                      ;21
                                                  CSBank.2': u74.9i
                                                                         ;22
CSA.11':
                      ;21
            u37.8i
                                                  CSBank.2': u66.14o
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CSA.11':
                      ;21
            u39.8i
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CSA.11':
            u58.8i
                                                  CSBank.3': u66.13o
                                                                        ;27
CSA.11':
            u60.8i
                      ;21
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CSA.11':
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CSA.11':
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CSA.11':
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                                                  CSParErr:
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                                                  CSParErr:
CSA.11':
            u94.8i
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                                                  CSParErr:
                                                              u01.150
                                                                        ;28
                      ;22
CSA.11':
            u76.8i
                      ;22
CSA.11':
            u78.8i
                      ;22
                                                  CSWE.a':
                                                              v71.18o, v50.1i, v50.19i
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CSA.11':
            u96.8i
                                                  CSWE.a':
                                                              v25.11i
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CSA.11':
            u93.8i
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                                                  CSWE.a':
                                                              v10.11i
CSA.11':
                      ;22
            u75.8i
                                                                        ;21
CSA.11':
                      ;22
                                                  CSWE.a':
                                                              u36.11i
            u77.8i
CSA.11':
                                                  CSWE.a':
                                                              u55.11i
                                                                        ;21
                      ;22
            u95.8i
                                                              u74.11i
                                                  CSWE.a':
                                                                         ;22
CSA.11':
            u97.8i
                      ;22
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VEDOV	PROPRIETARY NOTE ON COVER SHEET APPLIES TO ALL SHEETS  D		DWG NO. 156P12560			SHEET REV.
XEROX	TITLE SCHEMATIC CPF-FP	SIZE A4	SHEET	53	OF	A

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           u92.11i ;22
CSWE.a':
                                               Cycle1': E2, v86.2i ;18
           v71.16o, v51.1i, v51.19i
                                       ;19
CSWE.b':
           v11.11i
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CSWE.b':
                                               Cycle1: u45.7i
                                                                 ;17
                    ;20
CSWE.b':
           v26.11i
                                               Cycle1: v86.18o, u31.13i ;18
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CSWE.b':
           u37.11i
                                               Cycle1: u70.9i
                                                                ;18
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           u56.11i
CSWE.b':
                                               Cycle1: v96.4i, v18.4i ;32
CSWE.b':
           u75.11i
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                                               Cycle1: v00.3i
                                                                ;32
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CSWE.b':
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                                                           u73.10i ;16
                                               Cycle2':
           v71.14o, v52.1i, v52.19i
                                        ;19
CSWE.c':
                                                           E3, v86.4i ;18
                                               Cycle2':
CSWE.c':
           v12.11i
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CSWE.c':
           v27.11i
                     ;20
                                               Cycle2: v23.2i
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                     ;21
CSWE.c':
           u38.11i
                                               Cycle2: v97.11i ;16
                     ;21
CSWE.c':
           u57.11i
                                               Cycle2: v63.6i ;16
Cycle2: v86.16o, v05.12i ;18
CSWE.c':
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CSWE.c':
           u94.11i
                                               Cycle2: v96.7i, v18.7i;32
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CSWE.d':
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                                               Cycle3': E4, v86.6i ;18
CSWE.d':
            v28.11i
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           u39.11i
                     ;21
CSWE.d':
                                               Cycle3: u72.4i
            u58.11i
                     ;21
CSWE.d':
                                               Cycle3: v22.13i
                                                                 ;18
                     ;22
            u77.11i
CSWE.d':
                                               Cycle3: v86.14o
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CSWE.d':
            u95.11i
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                                               Cycle3: u69.13i
                                               Cycle3: u14.12i
                                                                 :31
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                                               Cycle3: v86.8i
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CSWE.e':
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CSWE.e':
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                                               Cycle3Pin':
                                                              u01.5i
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                     ;21
CSWE.e':
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CSWE.e':
            u78.11i
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                                                CycleX':
            u96.11i
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                                                           u53.2i
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                                                           u52.70
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CSWE.f':
            v15.11i
                    ;20
                                                CycleY':
                                                           u53.1i
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CSWE.f':
            v30.11i
                     ;20
CSWE.f':
            u41.11i
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                                                DBorder←': v89.15o, E25
CSWE.f':
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CSWE.f':
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Ct.0:
         u49.13i
                                                DesClk: v01.14i
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         v63.15i
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Ct.0:
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                                                DesClk: u14.8o
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Ct.0:
         u01.130
                                                DesClk: u14.3i
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Ct.1:
                                                DesError: u01.140 ;28
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                                                DesMpState.0: v96.15i
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 Ct.2:
                  ;16
 Ct.2:
         v63.2i
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         u01.7i
                  ;28
                                                DesMpState.1: v96.1i
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XEROX	TITLE SCHEMATIC, CPE-FP	SIZE A4	SHEET	65	OF	REV.

```
#TP114.1i, v12.15o
                              :20
pmem:
                                                       u65.4i, u83.5o, J2.22
                                                                                ;36
                                              PO.1:
                ;21
        u38.150
pmem:
                 ;22
        u76.150
pmem:
                                              PO.2':
                                                       u65.14o, J2.25;36
                 ;24
        u24.8i
pmem:
        u11.2i
                 ;25
pmem:
                                                                                ;36
                                              PO.2:
                                                       u65.6i, u83.6o, J2.24
pNIA.00':
           u48.4o, #TP29.1i
                                              PO.3':
                                                       u65.120, J2.27;36
pNIA.00':
           v76.3i
                    ;15
pNIA.00':
           u47.3i
                    ;26
                                                       u65.8i, u83.9o, J2.26
                                                                                ;36
                                              PO.3:
           u48.7o, #TP30.1i ;14
pNIA.01':
                                              PO.4':
                                                       u65.30, J2.29 ;36
pNIA.01':
           v76.4i
                    ;15
pNIA.01':
           u47.6i
                    ;26
                                              PO.4:
                                                       u65.17i, u83.12o, J2.28;36
           u48.90, #TP31.1i ;14
pNIA.02':
pNIA.02':
                                              PO.5':
                                                       u65.50, J2.31 ;36
           v76.7i
                    ;15
pNIA.02':
           u47.11i
                    ;26
                                                       u65.15i, u83.15o, J2.30;36
                                              PO.5:
pNIA.03':
           u48.12o, #TP32.1i;14
                                              PO.6':
                                                       u65.70, J2.33 ;36
pNIA.03':
           v76.8i
                    ;15
pNIA.03':
           u47.14i
                    ;26
                                              PO.6:
                                                       u65.13i, u83.16o, J2.32;36
           v43.4o, #TP33.1i ;14
pNIA.04':
                                                       u19.19i, u65.9o, J2.35 ;36
                                              PO.7':
           v76.13i
pNIA.04':
                    :15
                                              PO.7':
                                                       u04.14i ;36
                    ;26
pNIA.04':
           u82.3i
                                              POData←': v89.7o, E28;11
pNIA.05':
           v43.7o, #TP34.1i
                             :14
           v76.14i ;15
pNIA.05':
                                              Pop:
                                                       u17.6i, u17.2i, u17.15i;06
           u82.6i
                    ;26
pNIA.05':
                                                       u17.11i
                                              Pop:
           v43.90, #TP35.1i ;14
                                              Pop:
                                                       u34.30
                                                                ;12
pNIA.06':
           v76.17i ;15
pNIA.06':
                                                                ;11
                                              PopX':
                                                       u15.90
pNIA.06':
           u82.11i
                    ;26
                                                                ;12
                                              PopX':
                                                       u34.1i
                                              PopX':
                                                       u16.6i
                                                                ;17
pNIA.07':
           v43.12o, #TP36.1i;14
pNIA.07:
           v76.18i
                    ;15
                                              PopZ':
                                                       u18.10o, #TP181.1i
                                                                             ;11
pNIA.07':
           u82.14i
                    ;26
                                              PopZ':
                                                       u34.2i
                                                                ;12
                                              PopZ':
                                                       u16.5i
                                                                ;17
           #TP38.1i, v91.8o
                             ; 14
pNIA.08':
pNIA.08':
           v62.3i
                    ;15
pNIA.08':
           v31.3i
                     ;26
                                              PortOutput': u01.180 ;28
                                                                                :36
                                              PortOutput': u19.1i, u65.11i
                                              PortOutput': u83.190, J2.34
pNIA.09':
           #TP40.1i, v92.8o
                             ; 14
pNIA.09':
           v62.4i
                    ;15
                                              Port←': u32.13o
                                                                :11
pNIA.09':
           v31.6i
                     ;26
                                              Port←': u87.13i
                                                                ;36
           #TP42.1i, v90.8o
                             ; 14
pNIA.10':
                                                       u87.12o, u69.5i
                                                                          ;36
                                              Port←:
pNIA.10':
           v62.7i
                     ;15
pNIA.10':
           v31.11i
                   ;26
                                              pPC16': #TP192.1i, u44.11o
                                                                             ; 17
                                              pPC16': u64.13i
pNIA.11':
           #TP44.1i, v93.8o ;14
pNIA.11':
           v62.8i
                    ;15
                                                       v97.8i, v97.5i, E9, v97.2i;18
                                              ppClk:
pNIA.11':
           v31.14i ;26
                                                       u91.4i
                                                                ;05
                                              prA.0:
PO.0':
        u65.18o, J2.21;36
                                                                ;10
                                              prA.0:
                                                       v17.3i
                                                       v50.18o ;19
        u65.2i, u83.2o, J2.20
                                 ;36
                                              prA.0:
PO.0:
                                              prA.0:
                                                       #TP95.1i, v25.12o;20
PO.1': u65.16o, J2.23;36
                                              prA.0:
                                                       u36.120 ;21
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XEROX	TITLE SCHEMATIC CPE-EP	SIZE A4	SHEET	66	OF	A A	ĺ

```
prB.3:
                                                        u92.150
                                                                  ;22
                  ;22
prA.0:
        u74.120
                                                                  ;24
                                               prB.3:
                                                        u22.12i
                  ;24
prA.0:
        u22.1i
                                                        u54.4i
                                                                  ;25
                                               prB.3:
                  ;25
prA.0:
        u06.4i
                                                        u35.3o, u86.12i, u86.9i;15
                                               pRet':
                  :05
        u91.5i
prA.1:
                                                        u86.4i, u86.1i
                                               pRet':
        v17.4i
                  :10
prA.1:
        v50.16o
                 ; 19
prA.1:
                                                        v00.12o, u85.12i ;32
                                               pSDS:
        #TP96.1i, v25.13o;20
prA.1:
prA.1:
        u36.130
                 ;21
                                                        #TP87.1i, u16.10o, u64.8i ;17
                                               pSE:
        u74.13o
                 ;22
prA.1:
                  ;24
prA.1:
        u22.2i
                                               Pt.0:
                                                        u49.120, E64
                                                                        ;16
        u10.4i
                  ;25
prA.1:
                                               Pt.0:
                                                        v85.17i
prA.2:
        u91.12i
                  ;05
                                                        u49.150, E164
                                               Pt.1:
                                                                        ;16
                  ;10
prA.2:
        v17.7i
                                                        v85.15i
                                               Pt.1:
                                                                  ;16
                  ;19
prA.2:
        v50.14o
        #TP97.1i, v25.14o;20
prA.2:
                                                        u49.16o, E65
                                                Pt.2:
                                                                        :16
        u36.140
                 ;21
prA.2:
                                                Pt.2:
                                                        v85.13i ;16
        u74.14o
                  ;22
prA.2:
        u22.4i
                  ;24
prA.2:
                                                Pt=Emu: u49.19o, #TP69.1i;16
        u07.4i
                  ;25
prA.2:
                                                Pt=Emu: v85.11i
                                                                 ;16
                                                Pt=Emu: u31.10i
                                                                 ;17
        u91.13i
                  :05
prA.3:
        v17.8i
                  ;10
prA.3:
                                                                                     ;14
                  ;19
                                                pTC.0:
                                                        v91.1i, v05.3o, #TP37.1i
prA.3:
        v50.12o
                                                pTC.0:
                                                        v62.13i ;15
        #TP98.1i, v25.15o;20
prA.3:
                 ;21
prA.3:
        u36.150
                                                        v92.1i, v05.6o, #TP39.1i
                                                                                     ;14
                                                pTC.1:
                  ;22
prA.3:
        u74.150
                                                        v62.14i
                                                pTC.1:
                                                                 ; 15
                  ;24
        u22.8i
prA.3:
prA.3:
        u11.4i
                  ;25
                                                        v90.1i, v20.12o, #TP41.1i
                                                pTC.2:
                                                                                     ;14
                                                pTC.2:
                                                        v62.17i
                                                                 ; 15
prB.0:
        v16.3i
                  ;10
                  ;19
prB.0:
        v50.30
                                                        v93.1i, v20.6o, #TP43.1i
                                                                                     :14
                                                pTC.3:
        #TP99.1i, v10.12o;20
prB.0:
                                                        v62.18i
                                                pTC.3:
                                                                 ; 15
        u55.12o
                  ;21
prB.0:
        u92.12o
                  ;22
prB.0:
                  ;24
                                                Push:
                                                        u17.7i
                                                                  ;06
prB.0:
        u22.9i
                                                Push:
                                                        u53.60
                                                                  ;12
                  ;25
prB.0:
        u08.4i
                                                Push:
                                                        u16.7i
                                                                  :17
                  ;10
        v16.4i
prB.1:
                                                PushX': u15.7o
                                                                  :11
         v50.50
                  ;19
prB.1:
                                                PushX': u53.5i
                                                                  :12
         #TP100.1i, v10.13o
                               ;20
prB.1:
         u55.130
                  ;21
prB.1:
                                                PushY': v57.120
                                                                  :11
prB.1:
         u92.13o
                  ;22
                                                PushY': u53.3i
                                                                  :12
                  ;24
prB.1:
         u22.10i
                  ;25
prB.1:
         u12.4i
                                                PushZ': u18.90
                                                                  :11
                                                PushZ': u53.4i
                                                                  :12
         v16.7i
                  ;10
prB.2:
         v50.7o
prB.2:
                  ;19
                                                pWaitClk': v97.4o, v21.9i;18
         #TP101.1i, v10.14o
                               ;20
prB.2:
                                                pWaitC1k': v04.5i, v04.10i ;18
prB.2:
         u55.140
                  ;21
                                                pWaitClk': v04.13i, v22.1i, v04.2i
prB.2:
         u92.14o
                  ;22
                                                pWaitClk': u46.13i ;38
         u22.11i
                  ;24
prB.2:
prB.2:
         u09.4i
                  ;25
                                                         u81.16i ;03
                                                Q.00:
                                                         u63.10i, u63.11i
                                                                            ;04
                                                Q.00:
                  :10
         v16.8i
prB.3:
                                                         u62.3o, #TP5.1i
                                                                            ;04
                                                Q.00:
                  ;19
         v50.90
prB.3:
                               ;20
                                                Q.00:
                                                         u88.1i
                                                                  ;27
         #TP102.1i, v10.15o
prB.3:
prB.3:
         u55.150 ;21
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VEDOV		SIZE				REV.
XEROX	TITLE SCHEMATIC CDE.ED	Α4	SHEET	67	OF	Α

```
v09.19i
                                                                   ;03
                                                 rB.1:
        u81.210, u80.16i ;03
0.03:
                                                                   ;03
                                                 rB.1:
                                                          u80.19i
                                                          v47.14i, v48.14i ;06
                                                 rB.1:
                  :03
Q.07:
        v08.16i
                                                                    ;10
                                                          v16.50
                                                 rB.1:
        u80.210
                  ;03
Q.07:
                                                 rB.2:
                                                          u81.18i
                                                                    ;03
        v08.21o, v09.16i
                            :03
Q.11:
                                                                    ;03
                                                 rB.2:
                                                         ·v08,18i
                                                          v09.18i
                                                                    ;03
                                                 rB.2:
        v09.21o ;03
0.15:
                                                                    ;03
                                                          u80.18i
                            ;04
                                                 rB.2:
        u62.60, #TP6.1i
Q.15:
                                                          v47.15i, v48.15i ;06
                                                 rB.2:
        u88.2i
                  ;27
0.15:
                                                 rB.2:
                                                          v16.60
                                                                    ;10
                  ;03
        u81.8i
R.00:
                                                                    ;03
                                                          u81.17i
                                                 rB.3:
        u63.13i
                 ;04
R.00:
                                                          v08.17i
                                                                    ;03
                                                 rB.3:
                            ;04
R.00:
        u63.7o, #TP3.1i
                                                          v09.17i
                                                                    ;03
                                                 rB.3:
                                                                   ;03
                                                 rB.3:
                                                          u80.17i
        u81.9o, u80.8i;03
R.03:
                                                          v47.1i, v48.1i;06
                                                 rB.3:
                                                                    :10
                                                 rB.3:
                                                          v16.90
         v08.8i
                  ;03
R.07:
         u80.90
                   ;03
R.07:
                                                                       ;19
                                                 ReadCS.0:
                                                             v71.70
                                                                       ;25
                                                 ReadCS.0:
                                                             u06.9i.
R.11:
         v08.9o, v09.8i;03
                                                                       ;25
                                                 ReadCS.0:
                                                             u10.9i
                                                             u11.9i
                                                                       ;25
                                                 ReadCS.0:
R.15:
         v09.90
                   ;03
                                                             u07.9i
                                                                       ;25
                                                 ReadCS.0:
         u62.2i, u63.9o, #TP4.1i;04
R.15:
                                                                       ;25
                                                 ReadCS.0:
                                                             u08.9i
                   ; 04
         u63.3i
R.15:
                                                                       ;25
                                                 ReadCS.0:
                                                             u12.9i
                                                             u54.9i
                                                                       ;25
                                                  ReadCS.0:
                   ;03
         u81.1i
rA.0:
                                                  ReadCS.0:
                                                             u09.9i
                                                                       ;25
         u80.1i
                   ;03
rA.0:
                   ;03
rA.0:
         v09.1i
                                                                        ;19
                                                  ReadCS.1:
                                                              v71.90
                   ;03
rA.0:
         v08.1i
                                                                        ;25
                                                  ReadCS.1:
                                                             u06.10i
rA.0:
                   ;10
         v17.20
                                                                        ;25
                                                  ReadCS.1:
                                                              u10.10i
                                                              u11.10i
                                                                        ;25
                                                  ReadCS.1:
                   ;03
         u81.2i
rA.1:
                                                              u07.10i
                                                  ReadCS.1:
                                                                        :25
         u80.2i
                   ;03
rA.1:
                                                  ReadCS.1:
                                                              u08.10i
                                                                        ;25
                   ;03
         v09.2i
rA.1:
                                                              u12.10i
                                                                        ;25
                                                  ReadCS.1:
                   ;03
         v08.2i
rA.1:
                                                  ReadCS.1:
                                                              u54.10i
                                                                        ;25
         v17.50
                   ;10
rA.1:
                                                              u09.10i
                                                                        ;25
                                                  ReadCS.1:
                   ;03
         u81.3i
rA.2:
                                                  ReadCS.2:
                                                              v73.90
                                                                        ;19
         u80.3i
                   ;03
rA.2:
                                                                        ;25
                                                              u06.11i
                                                  ReadCS.2:
         v09.3i
                   ;03
rA.2:
                                                              u10.11i
                                                                        ;25
                                                  ReadCS.2:
         v08.3i
                   ;03
rA.2:
                                                              u11.11i
                                                                        ;25
                                                  ReadCS.2:
rA.2:
         v17.60
                   ;10
                                                                        ;25
                                                              u07.11i
                                                  ReadCS.2:
                                                  ReadCS.2:
                                                              u08.11i
                                                                        ;25
                   ;03
rA.3:
         u81.4i
                                                                        ;25
                                                  ReadCS.2:
                                                              u12.11i
rA.3:
         u80.4i
                   ;03
                                                  ReadCS.2:
                                                              u54.11i
                                                                        ;25
                   ;03
rA.3:
         v09.4i
                                                              u09.11i
                                                                        ;25
                                                  ReadCS.2:
                   :03
         v08.4i
 rA.3:
         v17.90
                   ;10
 rA.3:
                                                  ReadCSEn': u12.7i, u11.7i, u10.7i
                                                  ReadCSEn': u09.7i, u08.7i, u07.7i
         u81.20i
                   ;03
 rB.0:
                                                  ReadCSEn': u06.7i, E188, u54.7i
         v08.20i
                   ;03
 rB.0:
                   ;03
 rB.0:
         v09.20i
                                                                 u61.13o, #TP18.1i;07
                                                  RefillIntc2:
 rB.0:
         u80.20i
                   :03
                                                  RefillIntc2: u48.1i
                                                                           :14
                             :06
         v47.13i, v48.13i
 rB.0:
         v16.20
                   ;10
 rB.0:
                                                              E88, u73.6i ;16
                                                  RefReq':
                                                              u88.3i ;27
                                                  RefReq':
         u81.19i
                   ;03
 rB.1:
         v08.19i
                   ;03
 rB.1:
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XEROX	TITLE SCHEMATIC, CPE-FP	SIZE A4	SHEET	68	OF	A	

```
;06
                                                            u17.12i, v66.2o, v60.17i
                                                stackP.O:
           u50.8o, E16;12
Refresh:
                                                stackP.0:
                                                            u16.1i
                                                                     ; 17
RefreshY': v57.13o
                     ;11
                                                            v66.7o, u17.14i, v60.15i
                                                                                         ;06
                                                stackP.1:
                     ;12
RefreshY': u50.10i
                                                                      ;17
                                                stackP.1:
                                                            u16.2i
RefreshZ': u18.150
                    ;11
                                                            v66.10o, u17.3i, v60.13i
                                                                                         ;06
                                                stackP.2:
                     ;12
RefreshZ': u50.9i
                                                stackP.2:
                                                            u16.3i
                                                                      ;17
        u15.140 ;11
RH←':
                                                                                         :06
                                                            v66.150, u17.5i, v60.11i
                                                stackP.3:
         v21.11i ;18
RH←':
                                                stackP.3:
                                                            u16.4i
                                                                      ;17
        v21.10o, v04.9i
                            ;18
RH←:
                                                 stackP←':
                                                                      ;06
                                                            v66.1i
                                                 stackP←': u52.100 ;11
SDS':
         v01.29i
                  :30
         u85.11o
                  ;32
SDS':
                                                                   ;05
                                                         u91.20
                                                 SUA.0:
                                                         v42.7i
                                                                   ;05
                                                 SUA.0:
SelectIBO':
               v37.1i
                                                         v69.7i
                                                                   ;05
                                                 SUA.0:
               u61.14o, #TP19.1i;07
SelectIBO':
                                                 SUA.0:
                                                         v41.7i
                                                                   ;05
                                                 SUA.0:
                                                         v68.7i
                                                                   ;05
SelectIB1':
               v78.1i
                         ;07
               u43.14o, #TP22.1i;07
SelectIB1':
                                                                   ;05
                                                         u91.70
                                                 SUA.1:
                                                         v42.6i
                                                                   :05
                                                 SUA.1:
SelFP': v24.19i, v32.60, v06.19i
                                      ;38
                                                          v69.6i
                                                                   ;05
                                                 SUA.1:
SelfP': J1.29;38
                                                 SUA.1:
                                                                   :05
                                                          v41.6i
                                                          v68.6i
                                                                   ;05
                                                 SUA.1:
                   ;30
         u64.190
SFLG':
         v00.6i
                   ;32
SFLG':
                                                                   ;05
                                                 SUA.2:
                                                          u91.100
                                                                   ;05
                                                          v42.5i
                                                 SUA.2:
                   ;03
         u81.6i
 sh:
                                                                   ;05
                                                          v69.5i
                                                 SUA.2:
                   :03
         u80.6i
 sh:
                                                                    ;05
                                                          v41.5i
                                                 SUA.2:
                   ;03
         v09.6i
 sh:
                                                                    ;05
                                                          v68.5i
                                                 SUA.2:
                   ;03
         v08.6i
 sh:
                   ;12
         u53.120
 sh:
                                                 SUA.3:
                                                          u91.150
                                                                    ;05
                                                                    ;05
                                                 SUA.3:
                                                          v42.21i
                   ;04
 Shift': u63.14i
                                                                    :05
                                                          v69.21i
                                                 SUA.3:
 Shift': u15.130
                   ;11
                                                          v41,21i
                                                                    :05
                                                 SUA.3:
 Shift': u53.13i
                   ;12
                                                          v68.21i
                                                                    ;05
                                                 SUA.3:
         v01.20, v34.18i
                             ;30
 SP.0:
                                                          u89.20
                                                                    :05
                                                 SUA.4:
                                                 SUA.4:
                                                          v42.1i
                                                                    :05
                             ;30
          v01.3o, v34.17i
 SP.1:
                                                 SUA.4:
                                                          v69.1i
                                                                    :05
                                                                    :05
                                                 SUA.4:
                                                          v41.1i
                             ;30
 SP.2:
          v01.4o, v34.14i
                                                 SUA.4:
                                                          v68.1i
                                                                    ;05
                                                          J1.16;38
                                                 SUA.4:
                             ;30
          v01.5o, v34.13i
 SP.3:
                                                                    ;40
                                                 SUA.4:
                                                          u21.410
                                                          u20.410
                                                                    ;40
                                                 SUA.4:
                             :30
          v01.390, v34.8i
 SP.4:
                                                          u89.70
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                                                  SUA.5:
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